00	001	23	Anyone here from Metropolitan Water District,
1	WEDNESDAY, OCTOBER 27, 1993, 9:00 A.M.	24	Regional Water Quality Control Board, U.S. Environmental
2	000	25	Protection Agency, Air Resources Board, and the Great Basin
	MR. DEL PIERO: Ladies and gentlemen, this hearing of		00004
	the State Water Resources Control Board will come to order.	1	Air Pollution Control District?
5	Good morning. My name is Marc del Piero, Vice Chair	2	MR. ONO: We won't be offering any testimony.
6	of the Board, and I also am acting in the capacity of	3	MR. DEL PIERO: Okay.
7	Hearing Officer on the matter regarding the amendment of	4	Mr. Frink, I guess we have no more questions of this
8	City of Los Angeles' licenses to divert water from Mono	5	panel.
9	Lake, actually to divert water from streams tributary to	6	MR. FRINK: I believe staff has a few guestions. We
10	Mono Lake.	7	will begin with Mr. Herrera's questions.
11	With me this morning are my four colleagues. Sitting	8	EXAMINATION
12	to my immediate left is my good friend and Chairman of the	9	BY MR. HERRERA
13	State Water Resources Control Board John Caffrey. To his	1 10	0 I will back up a little bit from what we did last
14	immediate left is our member from San Diego, Mary Jane	11	week Maybe some of these questions will be repatitive but
15	Forster To my immediate right is Mr. James Stubobeer and	1 12	week. Maybe some of mese questions will be repetitive, but
16	to my for right is Mr. John Proven	1 12	as we ve used this procedure in the past, whichever member
17	This is a continuence of the suidentions begins on		of the panel leels more qualified to answer the question may
10	This is a continuance of the evidentiary hearing on	1 14	
10	the matter of water rights licenses on Mono Lake.	15	I believe most of these will be directed to either
19	when last we left, I believe, Mr. Roos-Collins, it	16	Phil Dunn or Bill Mitchell.
20	was your turn to cross-examine the panel.	17	Have you had the opportunity, Phil, to review the
21	Is that correct, or did we get done with you?	18	Fish and Game recommendations that were submitted in August
22	MR. ROOS-COLLINS: I had concluded my cross-	19	of this year, the final ones?
23	examination.	20	MR. DUNN: A No, I haven't reviewed those
24	MR. DEL PIERO: You are finished, okay.	21	recommendations.
25	MR. ROOS-COLLINS: I would ask for an opportunity to	22	Q Do you intend to do that in preparation of the final
	00002	23	draft?
1	make a brief statement about my cross-examination.	24	A Yes.
2	MR. DEL PIERO: Now?	25	0 In the Draft Environmental Impact Report, you
3	MR. BOOS-COLLINS: Yes.		00005
4	MR. DEL PIERO: Please	1 1	mentioned that the Department of Fish and Game
5	MR_BOOS-COLLINS: Lam Richard Boos-Collins		recommendations Were developed to optimize fishery
ě	attorney for Celifornia Trout	1 5	conditions and we want over that a little bit. Did these
7	Mr. del Piero I am concerned there may have been a		conditions and we went over that a little bit. Did those
, 0	winderstanding on to my intentions in asking substitute		preaminary reports recommend instream nows to optimize or
0	misunderstanding as to my intentions in asking questions		maintain fish other than fin fish in the various streams
ຶ່	going to whether or not the Draft EIR incorporates documents		that they were prepared for?
,	prepared by the restoration consultants.	7	A To my knowledge, they did not.
_	So there is no misunderstanding, I want to say that I	8	Q What is your understanding of the Fish and Game
12	meant no criticism of the Board, or the staff or its	9	report? Do they suggest or recommend in their preliminary
13	consultant in their design or drafting of the EIR. I	10	recommendations which you have reviewed optimization flows
14	intended simply to demonstrate these documents are available	11	or flows to maintain fish in good condition, or what is your
15	and may be of assistance to the Board in revision of the	12	understanding of those recommendations?
16	EIR.	13	A Well, my understanding might not be that clear. As I
17	MR. DEL PIERO: Thank you very much.	14	recall, there were more words in those reports that
18	What I did fail to do this morning, and I won't fail	15	specified optimal flows rather than keeping fish in good
19	much longer, is to introduce our staff.	16	condition. I'm not sure that there were any recommendations
20	Sitting to my immediate front is our staff counsel	17	that actually stated these are the flows to maintain fish in
21	for this matter. Mr. Dan Frink Additionally, with us today	118	good condition and I think in some of the documents you
22	are two environmental specialists lim Canaday and Mr. Steve	10	could even interpret it several wave but I felt that
22	Herrera: and we have a full complement of accietants today	20	everall the objective was to entimize ficheries to the
23	in terms of staff, and we also have staff ansing the Mr.	20	extent receible
24	Disk and Catherentia and Mar Lively Cosition		extent possible.
25	Richard Satkowski and Wr. Hugh Smith.	22	In your investigations for the Draft Environmental
	00003	23	Impact Report, did you use any other fishery studies outside
1	Good morning, gentiemen. Welcome back from the dead	24	or those prepared for rish and Game or prepared for the
2	(laughter).	25	Restoration Technical Committee?
3	We had a small case of flu that ran through the staff		00006
4	last week.	1	Specifically, in our public policy statement sessions
5	Additionally, with us today is the lady to whom I	2	on Friday we had a gentleman indicate that he had worked on
6	answer, Alice Book, who is going to be our court reporter,	3	a fishery study for E.A. Associates, I believe it was in
7	and when Ms. Book says stop talking, we all stop talking	4	1989.
8	until she gets the paper changed.	5	Do you have any knowledge of that study or any of
9	So, additionally, for those witnesses that may come	6	that information?
10	before this Board today or in the course of the next several	7	A Yes, we did many other references, and let me ask Mr.
11	days during the process, when you begin your testimony, if	8	Mitchell to respond in terms of using E. A.'s reports.
12	you would be kind enough to announce your name clearly and	9	MR. MITCHELL: A There were a series of E. A.
13	spell it for the record, that will preserve the record in	10	reports that were used, and based on availability, we relied
14	good stead for us.	1 11	on those to some extent in analyzing impacts. Most of those
15	Now, is Ms. Scoonover ready?	1 12	reports focused on fish populations and changes in fish
16	MS SCOONOVER: We have no questions of this name	12	nonulations over the last three or four years
7	MR DEL PIERO: Thank you year much	14	O Do you recollect what stage those reports were in?
,	le Mr. Gineman of the LL S. Ecrest Service present?	1 1 5	Were they draft were they finale what was the statue?
د 10	Frice Nicheller - I den't and her this marries		A These were drafte. During the FID preparation they
13	Church Wiepauer I uon t see her this morning.		A mese were utaits. During the Ein preparation they
20	Okay. Frank Haselton. Is Mr. Haselton present?		were labeled as draits.
21	IVIK, HASELIUN: I have no questions.	18	u inank you. As you are aware, there has been a
22	IVIK. DEL PIERU: Larry Silver from the Sierra Club?	19	tremendous amount or restoration activities going on in
		1	

- in terms of using E. A.'s reports. A There were a series of E. A. sed, and based on availability, we relied
 - xtent in analyzing impacts. Most of those
 - fish populations and changes in fish
 - e last three or four years.
 - ct what stage those reports were in?
 - ere they finals, what was the status?
 - afts. During the EIR preparation they
 - ifts.
 - you are aware, there has been a
 - t of restoration activities going on in

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20 21 22 23 24 25	these streams directed by the Restoration Technical Committee. What effect do these activities have on the instream flow studies and the recommendations that come from that? Do they cause any changes to those recommendations? A The aquatic system research addressed that issue, and 00007	17 18 19 20 21 22 23	on Table S-1 under the heading Significant Impacts From Water Temperature Increases, the yes for the prediversion condition was changed to unknown. As I compared the two tables, I see some other differences. I was wondering if you could explain those. MR. DUNN: A Yes. I need to clarify that. I did look through both of these tables and compared them when I hed more sime then when the heaving and them are a form
1 2 3 4 5 6 7 8 9 10 11 12 13 4 5 6 7 8 9 10	 with respect to the existing habitat restoration efforts, they determined through an analysis that the habitat restoration was not significantly affecting the IFIM results. And on Rush Creek at the time of the instream flow study, habitat restoration was not under way at that time, although there were plans to conduct similar efforts on Rush Creek in the future. And we didn't really know at that time to what extent that would affect the IFIM results, and so my answer is that at the time the study was conducted, there were no major effects on the IFIM study through habitat restoration. Q Thank you. One other question. We haven't discussed much about Mill or Wilson Creeks, and I understand that there are some possibly ongoing studies by the Department of 	24 25 1 2 3 4 5 6 7 8 9 10 11 2 2	had more time than just at the hearing, and there are a few differences in these tables and, in fact, there were some 00010 errors in these tables, and frankly, I am not sure how they got in there, but they are there. So, let me go through on Table S-1 which is page 6 of 15. Do you have that? Q Yes. A The impacts under Average Percent Change in Brown Trout Adult Habitat where we have shown significant project impacts and significant cumulative impacts, those significant cumulative impacts where those checks are, those checks should not be there, and our text explains the rationale why they should not be there. Q That's the first column you are looking at?
16 17 18 19 20 21 22 23 24 25 1 2	Fish and Game. Do you intend to utilize any of that information in the final EIR, or how do you intend to approach those creeks? MR. DUNN: That's really taxing my memory. I believe Mill and Wilson were not really included in our analysis, and frankly, I can't remember the rationale for that. I really can't recall why we did not look at those creeks. That was a decision that was made very very early on, and frankly, I can't recall the reasons. 00008 Q Okay, I have one other question. You did prepare the IEIM study for the middle Owens. Could you describe the	13 14 15 16 17 18 19 20 21 22 23 24 25	 A Correct. Q So the same thing would be true for Table 3D-8? A That's correct, for average percent change in brown trout adult habitat. So, these are things that we would typically clean up for the final Environmental Impact Report and we definitely will. And then, in addition, if you look at the upper Owens River average change in rainbow trout adult habitat, that's the very next column on Table S-1, again, there's a list of checks for cumulative impacts that should not be there. And again, that follows for Table 3D-8. They should not be there. Q What about the water temperature column, would that
2 3 4 5 6 7 8 9 10 1 12 3 4 5 6 7 8 9 10 1 12 3 4 5 6 7 8 9 10 1 12 3 4 5 6 7 10 10 10 10 10 10 10 10 10 10 10 10 10	 Initial year of the middle Owens. Could you describe the reach of the study and who participated in that study? MR. MITCHELL: A You are asking who conducted the field work and the analysis? Q Actually, who was involved in the initial establishment of transects, this sort of thing? MR. DUNN: A I will let Bill discuss the specific reaches, but in terms of who was involved, it was kind of a collective effort of Jones & Stokes Associates, State Board staff, Department of Fish and Game staff and the Los Angeles Department of Water and Power staff, in terms of study design and selecting transects for the study. MR. MITCHELL: To the stream segments that were looked at for brown trout the primary reaches of segments that were evaluated were segments 1 through 3 because these areas are the primary spawning and rearing areas for brown 	25 1 2 3 4 5 6 7 8 9 10 11 2 13 4 5	OWNAT about the water temperature column, would that 00011 be the same? Should those checks not be there for that column also? A That's correct. Q And also, for the next column on significant impacts from water quality degradation? A That's correct. And part of the confusion from this table, I think, is because you have two columns that are percent changes and then you have got two columns that are a more absolute question, are there significant impacts from water temperature increases under the various alternatives and under the prediversion condition, and we talked about I guess the only differences still remaining, if you look at Table 3D-8, and under water temperatures and water quality, those two columns on 3D-8, you see check marks
18 20 21 223 24 25 1 23 4 5 6 7 8 9 10 11 12 12 23 4 5 6 7 8 9 10 11 12 12 12 12 12 12 12	trout. Segment 4, which extends through the lower reach of the Owens Valley below Laws Ditch was analyzed with respect to large mouth bass habitat requirements. Q Is there any particular reason why you did not produce any recommendations for instream flows on that? Would you discuss that a little bit more, that study? MR. DUNN: A Well, again, I don't feel that was our 00009 responsibility. Our responsibility was to conduct that instream flow study and use it to evaluate the effects of the different alternatives on middle Owens fish populations and habitat, and we did not find any significant effects from any of those alternatives. MR. HERRERA: I believe that completes my questions. Thank you, gentlemen. E X A M I N A T I O N by MR. SATKOWSKI: Q I have one question dealing with State Water Resources Control Board Exhibit 7, which is the DEIR Volume I, and last week, if I remember correctly, we were discussing or somebody was asking the question about the differences between Table S-1 which is on page 6 of 15, and the table farther on in the volume which is Table 3D-8, last week I believe there was a correction made and that was that	156 17 18 190 22 22 1 2 3 4 5 6 7 8 9 10 11 12 1 <t< td=""><td>there. Those should not be check marks. Those should be asterisks. Q Which signifies adverse impacts? A That's correct. Q What about the prediversion row on 3D-8? All the items are labeled unknown, whereas on Table S-1 there are</td></t<>	there. Those should not be check marks. Those should be asterisks. Q Which signifies adverse impacts? A That's correct. Q What about the prediversion row on 3D-8? All the items are labeled unknown, whereas on Table S-1 there are

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- 14	MR. CANADAY: I have no questions,	11 exists specifically.
15	MR. DEL PIERO: Mr. Smith?	1 12 0 Can anyhody answer that question?
16	MR SMITH: No	12 MR CASADAV. A The prediversion date of Bush
10	MD EDINIC Chaff has no funther must	13 WR. CASADAT: A The prediversion delta of Rush
•	MR. FRINK: Staff has no further questions.	14 Creek?
	MR. DEL PIERO: Board members?	15 Q Prediversion delta and wetlands of Rush Creek.
۱9	l have three.	16 A My recollection is that much of those wetlands were
20	EXAMINATION	17 drained with lake recession and, of course, that remnant
21	by MR DEL PIERO:	18 dolta ion't the dolta anymetra. There is a new dolta formed
21	O Ma Cadada a Maria da da ante da la	to deita isn't the deita anymore. There is a new deita formed
22	Q IVIT. Studenaer will appreciate this. Mr. Studenaer	19 down at the lower lake elevation, but again, my recollection
23	and I occasionally travel together and recently we have been	20 is there's not the extent of wetlands there that existed in
24	doing it quite a bit.	21 1941.
25	In your opinion, can one cubic foot per second in an	22 Q Okay. When significantly saturated soils exist on a
	00013	23 nermanent basis is it your impression that ringrion
1	Eastern Sierra stream quatein a fishery?	20 pointaitone basis, is it your impression that headan
		24 vegetation like the riparian vegetation that historically
2	MR. DUNN: A I think one cubic foot per second could	25 had been known to exist on Rush Creek or the other
3	sustain a fishery. It is not going to be an outstanding	0001
4	fishery, but it could sustain a fishery.	1 tributaries to Mono Lake, is it your experience that that
5	Q I am asking this just for the record but I think I	2 continues to exist in deltas that are formed by streams that
Â	know the answer	2 are tributery to Mone Lake in the error that are common anthu
, e		3 are indulary to wono Lake in the areas that are permanently
	is a fishery static?	4 saturated, or does a different subsystem of the environment
8	A Very definitely no.	5 exist in terms of the plant life that predominates in
9	Q What causes it to change?	6 freshwater deltas?
10	A That could be a long answer, but I will try to make	7 A loues lam having a hard time following the
11	it short. The flows the helitet sheresteristics the	7 A rightees rain having a hard time following the
	it short. The nows, the habitat characteristics, the	8 question. If you could reprirate it
12	relationships in terms of different species of fish, changes	9 Q We saw a number of pictures last week, some of them
13	in water temperature, changes in food production, the	10 represented riparian corridors. The thing that people
14	interactions of those are things that we can't fully	11 normally consider to be riparian corridors are corridors
15	understand and sometimes there can be long-term changes or	12 where there are large trees willows additional other types
10	there can be an effect that is a short there of the folly-certific finitiges of	12 where there are large trees, whows, auditorial other types
10	there can be an effect that is a short-term change that	13 of trees, and in the case of Rush Creek there are pines that
17	affects a population for several years.	14 have existed along there, a variety of deciduous trees also
18	Q Assuming that your first statement about the one	15 existed besides the willows. That was not present in the
19	cubic foot per second sustaining a fishery is correct, could	16 delta area.
20	ontimal conditions related to your second answer affect a	17 The question I have for you given a situation where
21	fighers that is maintained in a one subic feat ner second	19 year have a date where you have virtually continuous
21	ishery that is maintained in a one cubic toot per second	18 you have a delta where you have virtually continuous
22	flow that would allow it to be a significant fishery?	19 saturation in terms of the soil which is by definition what
23	If I didn't make myself clear with that question,	20 that delta is, is it common to find riparian vegetation like
1	tell me and I will try and rephrase it for you.	21 what you find in an upper creek area, in an area like that?
	A Well, I think if one cubic foot ner second is kind of	22 A I would say no, that you have a different environment
	00014	23 there Binarian vegetation you know does need agrated
1		25 there. Ripanan vegetation, you know, does need aerated
1	an average condition, and then you take these other	24 soil in the shallow layers, so when you get into saturation
2	potential factors affecting the fishery, certainly that	 soil in the shallow layers, so when you get into saturation on the surface, you are going to not have riparian you
2 3	potential factors affecting the fishery, certainly that fishery could suffer significantly if the one cubic foot per	 soil in the shallow layers, so when you get into saturation on the surface, you are going to not have riparian you
1 2 3 4	an average condution, and then you take these other potential factors affecting the fishery, certainly that fishery could suffer significantly if the one cubic foot per second was only there for a short time depending on the	24 soil in the shallow layers, so when you get into saturation 25 on the surface, you are going to not have riparian you 0001 1 have wetland vegetation.
1 2 3 4 5	an average condition, and then you take these other potential factors affecting the fishery, certainly that fishery could suffer significantly if the one cubic foot per second was only there for a short time depending on the timing of what life stances it might affect it might be if	 24 soil in the shallow layers, so when you get into saturation 25 on the surface, you are going to not have riparian you 0001 1 have wetland vegetation. 2 0 Okay. So the absence of riparian vegetation in an
- 2 3 4 5 0	an average condition, and then you take these other potential factors affecting the fishery, certainly that fishery could suffer significantly if the one cubic foot per second was only there for a short time depending on the timing of what life stages it might affect, it might be if	 24 soil in the shallow layers, so when you get into saturation 25 on the surface, you are going to not have riparian you 0001 1 have wetland vegetation. 2 Q Okay. So, the absence of riparian vegetation in an
1 2 3 4 5 6	an average condition, and then you take these other potential factors affecting the fishery, certainly that fishery could suffer significantly if the one cubic foot per second was only there for a short time depending on the timing of what life stages it might affect, it might be if that was just there for several weeks or several months that	 24 soil in the shallow layers, so when you get into saturation 25 on the surface, you are going to not have riparian you 0001 1 have wetland vegetation. 2 Q Okay. So, the absence of riparian vegetation in an 3 area where you have a wetland is not surprising to you?
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8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	 they get up. A We are not sure. MR. DEL PIERO: Thank you. Unless there are any other questions MR. BIRMINGHAM: Will there be any recross? MR. DEL PIERO: Absolutely. RECROSS-EXAMINATION by MR. BIRMINGHAM: Q I would like to follow up very briefly on some of the questions Mr. del Piero was asking. Isn't it correct that the Draft EIR reports that during the decade of the thirties, which was the decade immediately before the diversions by the Department, that Rush Creek was planted by the Department of Fish and Game? MR. DUNN: A Yes, that's true. Q And doesn't the Draft EIR report that according to personal communications from Phil Pister, Rush Creek was planted up until the mid sixties? 	5 6 7 8 9 10 11 12 13 14 15 16 17 18 9 201 21 22 23	 maybe Mr. Casaday could talk about this better because it has been a while. I only read that letter once, but I think he essentially is putting a different cast on why he recommended the flows, but I don't know if he has actually asked for higher flows or not. MR. DEL PIERO: Then, I am going to rule he doesn't know. MR. BIRMINGHAM: May I approach the witness? MR. DEL PIERO: Certainly. MR. BIRMINGHAM: Q I would like to show you a letter dated August 30, 1993, addressed to Jim Canaday of the State Water Resources Control Board, and ask if you have seen this letter before? A Yes, I have seen this letter. Q What is the letter? Q What is the letter? Q What is the letter, just so the record will be clear? MR. DEL PIERO: Mr. Birmingham. is that an exhibit?
1	A I don't recall that. That could be true, but I don't	24	MR. BIRMINGHAM: No, I believe the witness will
2	recall it off the top of my head.	25	testify it is comments submitted by Mr. Trihey to Mr.
4	Mill and Wilson Creeks, and why they were not included in	1	Canaday on the Draft EIR, so it is part of the record.
5	your analysis of fisheries.	2	A Well, I have reviewed this letter very quickly. It
6	Is it correct that you did not include an analysis of	3	is four or five pages long. I am not sure specifically what
7	Mill and Wilson Creeks because the Department of Water and	4	he is addressing in terms of the peak flows, whether he is
8	Power does not divert those streams out of the Mono Basin?	5	modifying that or not.
10	decision was, not to include those creeks. That could be	7	A believe there's another letter recall that was in
11	true. I'm not sure.	8	the testimony that essentially explained his rationale, or
12	Q Was it your understanding that the Department of	9	expressed certain terms about how he made his
13	Water and Power does not divert those streams out of the	10	recommendation, and I'm not sure if this is it or not.
14	Mono Basin?	11	Q Finally, there were some questions by Mr. Dodge
16	knowledge	13	concerning the number of fish that existed in Rush Creek
17	Q The only streams that have been diverted out of Mono	14	prior to the diversions by the City of Los Angeles DWP, and
18	Basin by the Department of Water and Power are Rush Creek,	15	specifically, Mr. Dodge asked about a reference in the Draft
19	Lee Vining Creek, Walker Creek and Parker Creek; is that	16	Environmental Impact Report to a quantitative estimate based
20	correct?	17	upon 50,000 adult fish spilling from Grant Lake in 1970.
21	A I believe so, yes. O Eallowing up on some guartiene that were asked of you	10	Do you recall that question?
22	last week by Ms. Cabill, the attorney for the Department of	20	O On page 3D-8 of the Draft Environmental Impact
24	Fish and Game, she asked questions concerning the proposed	21	Report, it states: Only one quantitative estimate of trout
25	recommendations by the Department of Fish and Game for peak	22	populations before 1940 was made; trout population abundance
	00020	23	in Rush Creek before 1935 was estimated to equal the
1	flows that were analyzed in the Draft EIR.	24	abundance measured during the water spill from Grant Lake in
4	Δ Yes	25	1970, when 50,000 adults were observed between the dam and
4	Q At the outset of your testimony on Thursday of last	1	Mono Lake.
5	week, you indicated, and I am reading here from the	2	Do you see the sentence which I have just read on
6	transcript of those proceedings, you stated, and this is	3	page 3D-8 of the Draft Environmental Impact Report?
7	from page 96 of the reporter's transcript, starting at line	4	A Yes.
8	20, And also, it appears that some parries have modified	5	Q From that, are you suggesting that in 1935, there was EQ 000 adult trout in Ruch Crack?
10	high flows, and certainly, we will again consider this	7	A Again, this was Vestal's view of the population and
11	information and any alternative interpretations of existing	8	you know, I think the 50,000 is certainly a very very rough
12	information that could change our conclusions in the final	9	approximation of the number of fish that were there, but
13	EIR.	10	that is essentially, I think, what he was concluding there.
14	Do you recall making that statement?	11	Q Well, I would like to ask your expert opinion about
15	A Yes.	12	this. As I understand it, and then perhaps you can confirm
17	their position is the Department of Fish and Game: is that	14	Department of Water and Power, the length of Rush Creek from
18	correct?	15	Grant Lake to Mono Lake was approximately 5.5 miles; is that
19	A It does appear that they have modified their flows,	16	correct?
20	yes.	17	A I don't specifically recall.
21	Q And is it also correct that Woody Trihey, the	18	Q I will ask you to assume it was approximately 5.5
22	restoration technical consultant, has modified his opinion	19	
23	concerning peak nows or the erosive effect of peak flows based upon high flows in 1992?	20	A All fight.
2 4 25	MR. DODGE: Excuse me. Mr. del Piero. That calls for	22	is that correct?
	00021	23	A Yes.
1	speculation.	24	Q Now, if there were 50,000 adult trout in Rush Creek
2	MR. DEL PIERO: Do you know if Mr. Trihey modified	25	and Rush Creek was 30,000 feet long, that would be
З	his position?		00024
4	A VVell, as I recall reviewing his letter, I think it's	1	approximately 1.7 adult trout per foot of Rush Creek; is

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2 that correct? 25 condition and an impact from the prediversion condition? 3 MR. DODGE: Objection, stating facts not in evidence, 00027 4 that Rush Creek was a single channel. 1 Right. What you are saying is true, and I think, 5 MR. DEL PIERO: That's true. You can go ahead and again, this Table 3D-8, the first four columns indicate 2 ask those questions and get to where you want to go. percent changes relative to; say, point of reference 3 MR. BIRMINGHAM: I'm asking a hypothetical question, condition, but then, when we get into significant impacts 7 4 8 Mr. del Piero. I will ask him to assume there were 30,000 5 from water temperatures, and also, from water quality, in 9 feet of stream in Rush Creek. each of the alternatives from no restrictions to no 6 10 Α Okav. 7 diversion, the table entries are relative to point of 11 MR. BIRMINGHAM: Q And that would be approximately 8 reference conditions, but when we say significant impacts 1.7 fish per foot of stream; is that correct? 12 9 from water temperature increases -- I would actually revise 13 Α Yes. 10 that and instead of saying significant impact from water Q 14 Are you aware of any stream in which there would be 11 temperature increases, say significant impacts from water temperatures, period, and the response then would be instead 15 1.7 adults per foot of stream, a stream with characteristics 12 16 similar to Rush Creek? 13 of unknown, it would be, yes, because there were impacts in 17 MR. DEL PIERO: You need to clarify what 14 prediversion conditions from high water temperatures. 18 characteristics you are asking him to assume in Rush Creek. 15 If prediversion is the baseline, then is there any 0 19 MR. BIRMINGHAM: Q You are familiar with the way impact of temperature? 16 Rush Creek appeared in 1940 based upon your review of the 20 17 MR. CASADAY: A Let me help clarify that because I 21 historical data; is that correct? 18 had a hand in putting these tables together, and I think it 22 Α Correct. 19 is a semantic question. I believe the last two columns Q 23 Do you think that based upon that review that an ought to say, significant problems from high water 20 24 estimate of 1.7 adult trout per foot is a reasonable 21 temperatures or from water quality. 25 estimate of the adult population in Rush Creek? 22 You are right, we shouldn't use the term impact there 00025 23 because it confuses one, because you then ask what is the 1 A Well, I would say that certain reaches of the stream 24 point of reference you are using, the point of reference of 2 could maintain that high a level, but overall the entire 25 what. 3 length of stream, we are assuming 5.5 miles, I would say 00028 4 that would seem to be a very high estimate. 1 The intent of those columns is, is there a 5 Q And, in fact, the first several miles of the stream 2 significant problem from these factors? 6 were dewatered periodically because of irrigation; isn't 3 Does that help? 7 that correct? Here I am referring to that portion of the 4 a Yes. I think you are describing a condition and not 5 8 stream above what is referred to as the Narrows? an impact, and I think you and I are in agreement probably 9 Α That is correct. 6 on that. 10 Ω And that would affect your opinion concerning whether 7 I would just like to ask one very brief question with or not 50,000 adult fish is a reasonable estimate? 8 11 regard to parker Creek, which we have not discussed very 9 much. On page 3D-8 of the Environmental Impact Report, 12 A Yes, it would. MR. BIRMINGHAM: Thank you. I have no further 3 10 there is a statement that anglers could catch a limit of eight- to ten-inch trout in two to three hours, and it is .4 questions 11 15 MR. DEL PIERO: Thank you very much. attributed to one of the old-timer's recollection. 12 Ms. Cahill or Mr. Thomas. Good morning. 16 13 In those days, was the limit 25 fish? MS. CAHILL: Good morning. 17 14 MR. DUNN: A I, frankly, don't recall. Mr. Mitchell, do you know? 18 **RECROSS-EXAMINATION** 15 0 by MS. CAHILL: MR. MITCHELL: A I don't recall. 19 16 Just a few last questions. You were asked about the Q And then, one last question: Given the fact that 20 Q 17 intent of the Department of Fish and Game in its stream 21 18 there has been some restoration activity on the streams, 22 evaluation reports. Did you read the cover letter by which would you recommend that any streamflows that are 19 23 the Department transmitted those reports to the State Board? recommended should be re-evaluated in approximately ten 20 24 MR. DUNN: A Are you referring to the August 19, 21 vears or so? 25 1993, versions of the reports? 22 MR. DUNN: A I think that would be a good idea, yes. MR. MITCHELL: Yes, I agree. 00026 23 1 Q Yes. 24 MS. CAHILL: Thank you. We have no further 2 Α I do recall reviewing the letters. 25 questions. 3 Q 00029 And do you recall that in those letters the 4 MR. DEL PIERO: Mr. Dodge. Department said, these are the flows required to keep fish 1 5 in good condition? RECROSS-EXAMINATION 2 6 by MR. DODGE: That is correct in the 1993 reports. 3 Δ 7 Thank you. With regard to the discussion we have had Just a couple of questions. You were asked about 1.7 Q 4 a 8 fish per foot. Who answered that question? of Mr. Vestal's characterization of Rush Creek, is it your 5 9 understanding that he said it was typical of Eastern Sierra 6 MR. DUNN: A I did. Let me ask you the same question: Would it be 10 streams or typical of heavily fished Eastern Sierra streams? Q 7 11 As I recall, it was typical of heavily fished Eastern 8 reasonable prediversion if there were about .75 fish per Α linear foot of Rush Creek? 12 Sierra streams. 9 13 Q Thank you. Let's revisit one more time this Table 10 This is really splitting hairs. Α MR. DEL PIERO: Actually, it's fish. 14 3D-8. I think we may have a logic and/or a semantic 11 15 difference here, but I would like to go back to Table 3D-8 12 Α I think, certainly, that would be more reasonable than what's here because in a small stream and given the 16 to the prediversion conditions where the table says, 13 complex characteristics of certain reaches of that creek, 17 Unknown, and you today said you would change it to yes in 14 you could possibly have, you know, a fairly high density of the columns on significant impacts from water temperature 15 18 adult fish, but, you know, the 1.7 seems high based on my 19 increases and significant impacts of water quality 16) degradation. 17 experience. MR. DODGE: Q And again, you don't know whether were 21 Now, assuming that an impact is an adverse change, if 18 30,000 feet of channel or 65,000 feet of channel; do you? 22 the prediversion condition was a condition of water 19 Well, we were assuming in that characterization there 23 temperatures, then there would be no change; would there, if 20 Α were 30,000 feet of linear channel. -- there would be a difference between a prediversion 24 21

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22	O That was hypothetical?	19 MR DEL PIERO: Thank you very much Mr. Birmingham
23	A That's correct.	20 MR. ROOS-COLLINS: Q At the time this photograph wa
24	Q I'm asking you, in fact, how many feet of channel	21 taken, who held the water rights for diversion upstream of
25	were there?	22 the photograph location?
	00030	23 A I presume that it was LADWP, but I'm not sure
1	A There would have been more than that. I don't know	24 exactly. There would have been many water rights up there.
2	D Someone told us that Mill and Wilson Creeks were not	25 Tiguess Fuon Cknow the specific answer.
4	diverted by the Department of Water and Power. Have they	1 Q As of 1939, had LADWP purchased the water rights of
5	been incised by the lowering of the lake?	2 Cain Irrigation Company?
6	MR. CASADAY: A My recollection is that at least one	3 A I don't know the answer, no.
7	of those has been significantly incised.	4 MR. DEL PIERO: Does anyone on the panel know?
8	Q Which one?	5 MR. CASADAY: Well, I should but my memory of these
9	A Well, I would have to look it up in the document. My	6 three volumes is fading rapidly. I believe that they had
10	recollection is Mill, but that could be incorrect.	7 purchased it by that time. That is something I certainly
11	u ine 1947 picture, as i recali, was taken pretty close	8 could look up, but we do have a chapter that addresses that
12	A Ves I believe that's true	10 righte
14	Q And there was a question about why there wasn't	11 MR. ROOS-COLLINS: Q Do you recall Mr. Birmingham's
15	riparian vegetation shown there. Do you recall that?	12 guestion last week about Figure 3 in LADWP Exhibit 1, which
16	A Right.	13 is the photo of Rush Creek Basin on February 21, 1947?
17	Q Do you recall whether that particular section of Rush	14 If I may, I will approach you and show you the
18	Creek was recently relicted by the lowering of Mono Lake?	15 photograph.
19	A That's definitely a possibility. You know, I think	16 A Yes.
20	any photograph or any information that we have on fish	17 Q Who held title to lands depicted in Figure 3 at the
21	populations or fish habitat that is that close to the lake	18 time the photograph was taken?
22	is certainly going to be influenced by any fluctuations in	20 auro
23	of the stream, and I think that's what Chairman del Piero	20 sure. 21 O Finally let me ask you a few follow-up questions to
25	was getting at	22 Mr. Dodge's questions about the length of Rush Creek pre-
	00031	23 1941.
1	Q My question was whether the lowering of the lake	24 Are you familiar with Trihey & Associates' report
2	level could have affected the riparian vegetation shown in	25 Past and Present Geomorphic, Hydrologic and Vegetative
3	that picture?	00034
4	A Yes, it could have.	1 Conditions on Rush Creek, dated September, 1992, Cal Trout
5	MR. DODGE: No further questions.	2 Exhibit 12?
5	MR. DEL PIERO: One point of clarification. I'm	3 A Yes, we are familiar with that.
8	on whether or not that area was relicted were you asking	5 of Rush Creek contained in that report?
9	relationship to conditions, or were you asking relationship	6 A I remember reviewing them a while back. I don't
10	to 1947 when the picture was taken?	7 know, maybe Bill recalls better than I do.
11	MR. DODGE: The latter.	8 Q Are you familiar with the linear estimates by stretch
12	MR. DEL PIERO: Thank you.	9 pre-1941?
13	Mr. Roos-Collins.	10 A I certainly could not recall them right now.
14	RECROSS-EXAMINATION	11 Q So, you wouldn't disagree with Mr. Dodge's
15	by MR. ROOS-COLLINS:	12 suggestion that this report concludes that the pre-1941
17	about the planting of Rush Creek with batchery trout pre-	14 approximately 65 000 feet?
18	19417	15 MR. FRINK: Objection, the witness said he couldn't
19	MR. DUNN: A Yes.	16 recall.
20	Q Is it possible that Rush Creek was planted with	17 MR. DEL PIERO: Sustained.
21	hatchery trout because the native fish had been caught.	18 MR. ROOS-COLLINS: No further questions.
22	MR. BIRMINGHAM: I'm going to object on the ground	19 MR. DEL PIERO: Mr. Stevens.
23	the question assumes facts not in evidence. I don't believe	20 MR. STEVENS: No questions.
24	there were any native fish in any of these streams.	21 MR. DEL PIERO: Is Mr. Gipsman here?
25	INR. ROOS-COLLINS: 1 Withdraw the question.	22 Mis. Niedauer has not joined us.
1	00032	23 Mr. Haselton? 24 Mr. Silver from Sierra Club, is he here?
2	planting Rush Creek pre-1941?	25 Anyone else wishing
3	A Well, I think Rush Creek experienced fairly heavy	00035
4	angling pressure even at that time, like many of the streams	1 MR. STUBCHAER: I have one question.
5	do on the Eastern Sierra, and they were, in effect,	2 MR. DEL PIERO: Yes, Mr. Stubchaer.
6	supplementing the population, making sure that there were	3 EXAMINATION
7	adequate fish for anglers to catch.	4 by MR. STUBCHAER:
8	Q Thank you. Do you know whether the Department of	5 Q Could you make an estimate of how long it would take
9	Fish and Game maintained a natchery on Kush Creek pre-1941?	o for treshwater vegetation to re-establish itself along the
11	 A rubin treball the specific years. Mr. del Piero this morning asked you a question about 	8 is after the lake subsided and how long would it take for
12	Figure 6 in LADWP Exhibit 1, the 1939 photograph by Fidon	9 the salts or whatever is in the soil to leach out and allow
13	Vestal, looking upstream in the vicinity of old Highway 395	10 freshwater riparian vegetation to come back?
14	on Rush Creek.	11 MR. CASADAY: A Along the immediate vicinity of the
15	Do you recall that photograph?	12 stream itself, relatively rapid, and there is, in fact, a
16	A Yes.	13 lot of willow growth occurring down in this incised corridor
17	MR. BIRMINGHAM: I have a copy of it here if the	14 along the lower stream.
18	witness would like to look at it.	is a And now many years is relatively rapid?

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Page 6

- 16 A Well, I'm trying to recall when the court ordered the
- 17 first rewatering of the streams, but by 1989, there was
- 18 extensive growth of young willows when we were there, so I
- 19 would say in just a few years, and I don't know that I could
- 2 be more explicit.
- 0 Is 15 years an adequate time? _1
- 22 For the establishment of those seedlings, yes. Α
- MR. STUBCHAER: Okay, thank you. 23
- 24 MR. DEL PIERO: Staff.
- 25 MR. FRINK: Mr. Canaday has one, I believe.

00036 EXAMINATION 1 2 by MR. CANADAY: To the best of your recollection, the prediversion conditions of both Rush and Lee Vining Creeks, 3 were they single channels or were they multiple channels? 4 MR. DUNN: A They were multiple channels. 5 6 Q And to the best of your recollection, in 1989, which we call kind of the point of reference, what was the 7 8 condition of Rush and Lee Vining Creeks as far as multiple 9 channels? 10 Α There definitely were fewer multiple channels at that time. 11 12 a. Was Lee Vining Creek mainly a single channel, to the 13 best of your recollection? 14 А Yes. 15 Q What about Rush Creek? 16 Α I believe so. 17 0 You have been asked to review a photograph from LADWP 18 Exhibit No. 1 called Figure 3, a photo of Rush Creek, and it's the one near the mouth, near the delta. Were the lake 19 20 at that level today, would you expect to see an incised 21 channel, or the channel that exists in this picture, has 22 that been incised because of the drop of the lake? 23 MR. CASADAY: A This photograph was taken in the 24 vicinity of the county road; is that correct? 25 Q I believe just below the county road. 00037 Δ Yes, that area is incised. Q Approximately how much; do you know? 3 At the county road, the incision is quite deep, on Α 4 the order of -- well, again, it is in the document. My 5 recollection is 10 to 20 feet, or something of that order. 6 Q So the ability to create or re-establish a condition 7 that looked like this photograph would be difficult because 8 there has been a widening of the channel and incision of 9 that channel? 10 Α There definitely has been an incision of the channel and now the stream is trying to widen the floodplain down at 11 12 the lower depth, and that floodplain where the riparian 13 vegetation would be expected to grow is now very narrow 14 compared to the earlier, the prediversion, and the higher 15 floodplain. MR. CANADAY: Thank you. That's all I have. 16 MR. DEL PIERO: Any other questions by staff? 17 18 MR. FRINK: No. 19 MR. DEL PIERO: Board members have no more questions. 20 Thank you very much, gentlemen, for your time. We 21 appreciate it. 22 Mr. Frink, we have one more panel? 23 MR. FRINK: We have two more, 24 MR. DEL PIERO: Wishful thinking. 25 MR. FRINK: I wonder if we could suggest a five-00038 minute recess in order to give the new panel --1 MR. DEL PIERO: Why don't we take a ten-minute recess 2 and we could start with the new panel. 3 (Recess) Δ 5 MR. DEL PIERO: Ladies and gentlemen, this hearing will again come to order. 6 This panel doesn't look like the last one. 7 MR. FRINK: No, it's larger. MR. DEL PIERO: Why don't you proceed, please. 10 MR. DODGE: Mr. Chairman, I have a procedural point.

- I just learned that due to a recent development Mr. Flinn 11
- 12 cannot be here tomorrow morning and he and I have divided up

- the issues by subject matter, and in order to effectively 13
- 14 represent our clients, he really has to do it. 15
 - MR. DEL PIERO: Can he be here tomorrow afternoon?
- 16 MR. DODGE: Yes.
- 17 MR. DEL PIERO: Okay. We will make accommodations in
- 18 the schedule for him. 19
 - MR. DODGE: Thank you.
- 20 MR. DEL PIERO: If you will be kind enough to remind 21 me of that tomorrow morning.
- 22 Mr. Frink, do you want to introduce the next panel?
- 23 MR. FRINK: Yes, I would, Mr. del Piero.
- 24 The next group of witnesses are those who worked on
- 25 what was loosely termed the Terrestrial Resources Team.

00039 This includes witnesses on terrestrial biology, land use,

- 1 2 air quality, cultural resources and wildlife.
- 3 I don't believe any of the witnesses on the panel
- 4 have been sworn, so this would be a perfect time to
- 5 administer the oath.
- MR. DEL PIERO: Would everyone who intends to present 6
- 7 evidence today please stand and raise your right hand, not
- 8 only of this panel, but everyone else.
- 9 (The witnesses were sworn.)
- MR. FRINK: I believe we will begin with the 10
- 11 testimony of James Jokerst, who worked on the recreation
- impact assessment for the lake fringing wetlands in the 12
- 13 upper Owens River.
- 14 MR. CASADAY: Excuse me, Dan, Mr. Jokerst worked on
- 15 the vegetation section. The recreation will be on the
- 16 social and economic panel later.
- MR. FRINK: Okay, I'm sorry. 17
- 18 JAMES JOKERST.
- 19 having been sworn, testified as follows:
- 20 DIRECT EXAMINATION
- 21 by MR. FRINK:
- Mr. Jokerst, would you state your name and place of 22 Q
- 23 employment for the record?
- 24 Α My name is James Jokerst. I am with Jones & Stokes
- 25 Associates.

- 00040
- 1 0 And did you prepare a document entitled Written
- Testimony of James Jokerst for the Mono Basin Water Rights 2 Hearing?
- 3 4 Yes. I did. Α
- 5 Q Is that the document that has been designated as 6
- State Water Resources Control Board Exhibit 24 in this
- 7 proceeding? 8 Yes, sir. Α
- 9 Ω Your testimony indicates that you assisted in the
- 10 preparation of the Draft Environmental Impact Report for the
- 11 review of the City of Los Angeles' water diversions from the
- 12 Mono Lake Basin.
- 13 Would you please, briefly, summarize your education
- 14 and professional qualifications and experience that are
- 15 relevant to the work you did on the Draft EIR?
- 16 I prepared the sections encompassing the lake Α
- 17 fringing wetlands and upper Owens River vegetation analysis.
- 18 am a plant ecologist and botanist with a Master's degree
- 19 from the California State University at Chico. I have been
- 20 practicing as a consultant for 15 years, and I have had a
- 21 great deal of project experience, both in vegetation
- 22 description, impact assessment and relationship of
- 23 vegetation with geohydrologic and other physical factors.
- 24 Attachment A to Exhibit 24 appears to be the resume Q
- 25 of James Jokerst. Is this a true and accurate summary of
 - 00041
 - your professional education and experience as it relates to
- 2 the subject matter of your testimony?
- 3 Yes, sir. А

1

- 4 0 What portions, in particular, of the Draft EIR did
- 5 you assist in preparing?
- 6 А I prepared the sections dealing with what we termed
- 7 the lake fringing wetlands, wetlands that developed on the
- 8 relicted lake bed and that encircled the lake prior to the
- onset of diversions; and also, the upper Owens River 9

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10	vegetation and geohydrologic assessment that encompassed the	7	3F, and also, prepared four technical appendices, Appendix B
11	area from the portal down to the lake.	8	which is just a list of scientific and common names of
12	Q Do you affirm that SWRCB Exhibit 24 is a true and	9	animals; Appendix C, which is the analysis of the California
13	accurate summary of your testimony in this proceeding?	10	guil reproductive behavior and nesting substrate; Appendix
14	to light regarding the extent of prediversion wetlands on	1 12	fringing wetlands, as well as the upper Owens River area:
16	the Rush Creek delta.	13	and Appendix F, which was an analysis of all the special
17	I recently learned from Dr. Stine, who prepared a	14	status species: that is, threatened and endangered and other
18	baseline report upon which I based my analysis of	15	legally protected species that potentially occur in Mono
19	prediversion conditions that approximately 130 acres of	16	Basin, in the upper Owens River, and analysis of their
20	terrestrial wetlands, these are not lagoons, but vegetated	17	habitat requirements and distribution in that area.
21	wetlands were omitted from the map of the prediversion	18	O Did you also coordinate the preparation of any of the
22	conditions, and thus, in my impact assessment I did not	19	auxiliary reports to the Draft EIR?
23	predict the re-establishment of sufficient amounts of	20	A Yes, I did. I coordinated the preparation of the
24	vegetation on the Rush Creek delta as a result of not being	21	report by Dr. Martin Rubega on the foraging ecology of red-
25	aware of its existence prior to diversions.	22	necked phalaropes to the lake; also, a report by Dr. Michael
	This however if Leould as an a little bit. I den't	23	Morrison of U.S. Berkeley on the fauna of the Paona Island;
2	fail this would summarily chance my analysis in any way	24	and a study conducted by Robert Crabtree and his assistant,
3	because the presence of additional wetlands on the delta	20	Some Shive, on the behavior of coyotes in the vicinity of
4	under the different alternatives we analyzed would be	1	Negit Island.
5	proportionately affected roughly in the same manner by this	2	Q Do you affirm that State Water Resources Control
6	new information, and my review of the report indicates that	3	Board Exhibit 25 is a true and accurate summary of your
7	my conclusions regarding significant effects would not have	4	testimony in this proceeding?
8	changed as a result of that information.	5	A Yes, it is.
9	MR. FRINK: I believe that's all the questions I have	6	Q Are there any additions or corrections you want to
10	of you. Thank you very much.	7	make at this time?
11	Mr. del Piero, the next witness on this panel is Dr.	8	A Yes, there are a couple of things that have come up
12	Edward Beedy, who worked in the area of wildlife.	9	in my reading since the preparation of the Draft EIR that I
13	EDWARD CROSBY BEEDY,	10	would like to just mention now, and if people want to ask me
14	having been sworn, testified as follows:	11	questions about them later, they can.
15	DIRECT EXAMINATION	12	First of all, I have come upon some field notes from
16	by MR. FRINK:	13	Joseph Grinell and Joe Dixon spanning the period actually
17	Q Dr. Beedy, would you please state your name and place	14	from 1916 through different periods up to 1937 of their
18	of employment for the record.	15	visits to Mono Lake, Long Valley, and actually, all the way
19	A Edward Crosby Beedy with Jones & Stokes Associates as	10	down to Owens Lake, which did give me some new insight on
20	A Wildlife Biologist, Environmental Scientist.	10	what the vegetation around the lake looked like in the
22	Testimony of Dr. Edward C. Beedy for the Mono Besin Water	10	Although I did review Dr. Grinell's notes and Mr.
23	Rights Hearing?	20	Dixon's notes at length, I wasn't aware that there were
24	A Yes. I did.	21	additional notes from later periods, and it turned out that
25	Q is that the document that is designated as SWRCB	22	they actually did, at least Dr. Grinell, did go to Mono Lake
	00043	23	in September, I believe, of 1918, or something like that, it
1	Exhibit 25 in this proceeding?	24	might have been 1917, and I did look at his observations in
2	A That is right.	25	that period which I didn't have access to before.
3	Q Your written testimony indicates that you also		00046
4	assisted in preparing the Draft EIR that is under	1	Another important piece of information that I didn't
5	consideration this morning.	2	know at the time I prepared the Draft EIR was that covotes
6	Would you briefly summarize your education and	3	were able to gain access to Java Islet at a lake elevation
	experience, and your professional qualifications that are	4	of 63/5, and the document reported 63/3, so that is a
ర గ	A have worked as a preference wildlife birt and		Mr. Jakarat montioned the amission of the 120 serves
9 10	A i nave worked as a professional wildlife biologist	7	win. Jukerst mentioned the omission of the 130 of So
11	vers previous to that I did my doctorate work and master's	6	and I don't know enough about and what levels that
12	work in the Department of Zoology U.C. Davis My	ä	disappeared or would reappear to really make an assessment
13	dissertation work focused on bird distribution in the	10	on the effects on migratory ducks and other species that
14	Yosemite Sierra, so at that time I did spend a lot of time.	11	might have used that area, but that is something I would
15	not actually doing research, but in the Mono Basin.	12	like to have some time to think about, and possibly talk to
16	Following my dissertation work at Davis, I compiled a	13	other experts about when that would occur.
17	volume for the U. S. Forest Service on bird habitat	14	Also, this wouldn't change my analysis in any way,
18	requirements and distribution in the Sierra Nevada, and also	15	but Dr. Stine's report on the hypopycnal layering of
19	worked on statewide projects. This is work I have done	16	freshwater wetlands around the lake would provide more of a
20	outside of the work I have done for Jones & Stokes.	17	mechanism for some of the observations we described. Again,
21	So, I have had a lot of experience compiling and	18	it wouldn't change my conclusions.
22	summarizing data from different sources into documents for	19	And finally, on the red-necked phalaropes, in Dr.
23	the decision makers.	20	Rubega's work as far as the foraging of the phalaropes of
24	U is Attachment A to your written testimony a true and	21	the lake, the effect that she observed was primarily the
25	accurate summary of your professional, education and	22	remaies. It turned out when she actually dissected the
1	00044	23	birds after she had conducted her experiments, that the
ו י	Experience as it relates to the work you did on the Draft FIR2	24 25	she could not replicate, and it turned out her analysis did
4	Δ Ves it is	25	She could not replicate, and it turned out her analysis and OOOA7
5		I	00047

- 4 Q What specific portions of the Draft EIR did you
- 5 assist in preparing, Dr. Beedy?
- 6 A I took a major role in preparing the wildlife Chapter

1 not break down by males and females. There was individual variation, but both the males and females showed the same

2 3 effect, so I would say it is not just females.

And finally, both Dr. Jehl and Dr. Rubega criticized 4 0 1 my use of the word optimization in the Draft EIR, and I know 5 2 the record? better than that actually. Optimization has a very specific 6 3 meaning in the optimal foraging literature. I think to our 7 4 Associates. editors, Jones & Stokes thought the word suboptimal sounded 5 2 0 ł better than less than maximal, but in truth, the word 6 10 maximal is what Dr. Rubega was talking about, a mechanical 7 Yes, I did. А limitation of foraging behavior, not an optimization, which 11 8 \cap 12 means they could be doing as well as they could given 9 proceeding? 13 current food densities and the environment, so it is a clear 10 difference, and let's not use the old word anymore, and I 14 11 Yes, it is. Α would delete that from the Draft EIR and replace it with 15 0 12 16 maximal. 13 17 Other than that, I think that's probably enough for 14 discussina. 18 now. 15 MR. FRINK: Thank you, Dr. Beedy. 19 16 20 Mr. del Piero, the next witness is Robert Sculley on 17 21 18 air quality Α 22 ROBERT D. SCULLEY, 19 23 having been sworn, testified as follows: 20 24 DIRECT EXAMINATION 21 25 by MR. FRINK: 22 00048 23 Would you please state your name and place of 1 ā 24 2 employment. 25 3 Α My name is Robert Duane Sculley. I work for Jones 4 & Stokes Associates. 1 5 0 Did you prepare a document for this proceeding that 2 0 is titled Written Testimony of Robert Sculley for Mono Basin 6 3 7 Water Rights Hearing? 4 8 Yes, I did. 5 Α 9 And is that this document that has been designated as Q 6 Α Yes, it is, 10 State Water Resources Control Board Exhibit 26? 7 Q 11 Α Yes, it is, 8 12 Q Your written testimony indicates that you also 9 Α 13 assisted in preparing the Draft EIR that we have been 10 0 discussing. Would you, please, briefly summarize your 14 11 5 education and professional qualifications relevant to your 12 work on the Draft EIR. З 13 17 A I have a Bachelor's Degree in Zoology and a Master's 14 18 in Ecology. I have worked at Jones & Stokes Associates 15 since 1971. I have been preparing a wide range of analyses 19 16 20 focusing mostly on quantitative assessments and have been 17 21 preparing air quality assessments for nearly 20 years now. 18 22 Most of my air quality work has focused on emission 19 23 inventories, dispersion modeling analyses, regulatory 20 proposed lake level. 24 assessments, and I have been working with a wide range of 21 Q 25 dispersion models since the late 1970s and have done a 22 00049 23 1 number of area source dispersion modeling studies using both 24 the ISC model and the Caline series of models which formed 25 2 Α 3 the basis of the modeling code for the program that we used in the EIR. 1 4 5 Is Attachment A to your written testimony a true and 2 0 accurate summary of your education and experience as it 6 3 7 relates to the work you did on the Draft EIR? 4 8 Α Yes. 5 9 0 And what particular portions of the Draft EIR did you 6 10 assist in preparing? 7 11 Δ I prepared Chapter 3H, which is the air quality 8 12 chapter, Appendix 10 in the Draft EIR, and Auxiliary Report 9 by MR. FRINK: 13 26. 10 14 Q Do you affirm that State Water Resources Control ۵ 11 Board Exhibit 26 is a true and accurate summary of your 15 12 testimony in this proceeding? 13 16 Α 17 Α Yes, it is. 14 18 Q Is there anything else you wish to add at this point? 15 Q 19 Not at this time? 16 А MR. FRINK: Thank you very much. 17 Yes, I did. 20 Α α 21 Our next witness this morning is Dana McGowan. 18 3 DANA McGOWAN, 19 having been sworn, testified as follows: proceeding? 3 20 DIRECT EXAMINATION 24 21 А Yes, it is. by MR. FRINK: a 25 22 00050 23

Would you state your name and place of employment for

A My name is Dana McGowan. I work for Jones & Stokes

- Did you prepare a document titled Written Testimony
- of Dana McGowan for the Mono Basin Water Rights Hearing?
- Is that the document that's been designated as State
- Water Resources Control Board Exhibit 27 for this
- Your written testimony indicates that you also
- assisted in preparing the Draft EIR that we have been
- Would you briefly summarize your education,
- qualifications and experience that are relevant to the work you did on the Draft EIR?
- I have a Bachelor's Degree in Anthropology with
- specialization in Archaeology. I have a Master's Degree in
- Anthropology with specialization on Geology.
- I have worked for Jones & Stokes for three years.
- Prior to that time, I worked for the Department of
- Transportation and the Bureau of Land Management mostly
- working over in the Mono Basin area on the east side of the
- Sierra. I have about seven years of experience in addition

00051

- to the three years I worked for Jones & Stokes.
- Thank you. Is Attachment A to your written testimony
- a true and accurate summary of your professional
- qualifications and experience relevant to the area of work
- that you did on the Draft EIR?
- And what particular portions of the Draft EIR did you assist in preparing?
- I wrote the Cultural Resources section.
- Do you affirm that State Water Resources Control
- Board Exhibit 27 is a true and accurate summary of your
- testimony in this proceeding?
- Yes, it is, with one exception. Some information has
- come to light that, in fact, there may be some
- archaeological sites in the relicted lands. I am still
- gathering information on that topic and I have gotten some
- comments on the EIR and I am working on finding out whether
- or not there is additional information, whether or not
- archaeological materials might be located below the highest
- Do you have an opinion at this point as to the type
- of archaeological work that should be done either as a part
- of the stream restoration project or prior to any
- substantial increase in the water elevation at Mono Lake?
- I believe a cultural resources survey should be
 - 00052
- conducted and any sites found that can't be avoided should
- be treated so that the data that are contained in those
- sites would not be lost as a result of the project.
- MR. FRINK: I believe that's all the questions of Ms.
- McGowan. Thank you. The next witness is Roger Trott.
- ROGER TROTT,
- having been sworn, testified as follows: DIRECT EXAMINATION
- Would you please state your name and place of
- employment for the record, Mr. Trott.
- Yes. My name is Roger Trott and I work at Jones & Stokes Associates.
- Did you prepare a document entitled Written Testimony
- of Roger Trott for the Mono Basin Water Rights Rearing?
- And is that the document that has been designated as
- State Water Resources Control Board Exhibit 33 in this
- Your testimony indicates, as with the other witnesses
- we have heard from, that you assisted in preparing the Draft

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24 25	EIR we have been discussing. What particular portions of the Draft EIR did you assist in preparing?	21	going to do. So, the rest of γου gentlemen can just cool your heels.
	00053	23	Mr. Birmingham.
.1	A I prepared the agricultural portion of the land use	24	MR. BIRMINGHAM: No questions.
2	section, and also, worked on portions of the economic impact	25	MR. DEL PIERO: Ms. Cahill.
3	analysis.	_	00056
4	Q Would you, please, briefly summarize your education	1	MS. CAHILL: Mr. Thomas will ask the questions.
5	and professional qualifications and experience relevant to	2	MR. DEL PIERO; All right, Mr. Thomas.
57	the area of work that you did for the Draft EIR?		MR. IHUMAS: Harold I homas with the Department of
,	A fest i am an agricultural economist and hold a b. A.	4	to double team the penel, but the outlinet metter is somewhat
9	from the University of California at Davis in Agricultural		a surprise as I thought that wildlife and terrestrial things
10	Economics, and I worked for two years for the Soil	17	would be handled with cultural resources
11	Conservation Service preparing economic studies, prior to	8	have just two or three questions.
12	working at Jones & Stokes. And I have worked at Jones &	9	CROSS-EXAMINATION
13	Stokes for the past eight years preparing agricultural	10	by MR. THOMAS:
14	studies and economic studies.	11	Q Could you describe the nature of the cultural
15	Q Thank you. Is Attachment A to Exhibit 33 a true and	12	resources that you are finding in the relicted lands?
16	accurate summary of your professional qualifications and	13	MS. McGOWAN: A There are no recorded sites in the
17	experience?	14	relicted lands. We did not do any surveys for this project.
18	A Yes, it is.	15	We did a record search and all the sites were above the
19	Q And do you affirm that State Water Resources Control	16	highest proposed lake level. There has been some indication
20	Board Exhibit 33 is a true and accurate summary of your	17	that there has been an isolated artifact here and there.
21	testimony in this proceeding?	18	There is one site on an island that would be affected by a
22	A Yes, with one exception. Line 4, paragraph 2, where	19	rise in the lake level, but the question has been were
23	It refers to air quality should be changed to land use.	20	people living on the relicted lands along the stream courses
24	With that change, it is accurate.	21	or anyplace else when the water was drawn down, and there's
25		22	otill working that out
1	You Mr. Trott	23	O is it logical from an archaeological perspective that
2	Mr. Chairman, that is all the questions we have of	25	there would be nobody living in the relicted lands?
3	the panel and they would now be available for cross-	1	00057
4	examination.	1	A Well, that's really the issue. The question is,
5	MR. DEL PIERO: Good.	2	would there be any reason for them to be living there if
6	MR. FRINK: I might add, and I don't know how many	3	there was so little water in the stream if the lake was that
7	questions counsel for the various parties may have for Ms.	4	low, and I have talked to probably ten different people with
8	McGowan, but she has indicated she has other commitments and	5	an opinion on this subject, and it's about 50-50 right now
9	it would be helpful if there are questions in the area of	6	as to whether there are actually sites in that location and
10	cultural resources and archaeology, to get that cross-	7	whether or not the reason why nobody has found them is that
11	examination early.	8	they have been sedimented over.
12	MR. DEL MERO: I guess I need a little more	1 30	My personal feeling is that it seems a little
10	MS McGOWAN: I am leaving town this weekend and my	111	Ω It would be sete to conclude that you don't believe
15	life is starting to close in on me	1 12	that this is a significant archaeological resource in the
16	MR. DEL PIERO: Lunderstand about that. You are	113	relicted land?
17	good for today and tomorrow, I assume?	14	A I think it is safe to assume that the resources.
18	MS. McGOWAN: I am good for today.	15	should they be there, are probably going to be fairly
19	MR. FRINK: I spoke with the attorneys for several of	16	limited, and also, going to be fairly difficult to find.
20	the parties and they indicated that at this point they	17	And I think that the mitigation measures that you propose,
21	didn't believe that they would have extensive questions of	18	if they were applied to the relicted land, which is some
22	Ms. McGowan.	19	kind of sample survey of that land, would identify what's
23	MR. DEL PIERO: Mr. Birmingham, do you have a number	20	there.
24	of questions for Ms. McGowan?	21	MR. THOMAS: Thank you very much.
25	MR. BIRMINGHAM: I have no questions for Ms. McGowan.	22	MR. DEL PIERO: Thank you very much.
		23	Mr. Dodge of Mr. Flinn.
1	MR. DEL PIERO: "Okay. I assume that means you have	24	CROSS-EXAMINATION
2	Mr. Dodge?	25	DY MR. FLINN:
4	MR. ELINN: Patrick Elinn. We have five minutes	1	O Lem Patrick Elinn for the Auduban Society and Mono
· 5	worth of questions		Lake Committee
õ	MR. DEL PIERO: And Mr. Boos-Collins?	3	Ms. McGowan, at page 3K-14 of the Draft FIR, you
7	MR. ROOS-COLLINS: No questions.	4	refer to an egg collector's cabin on the north side of Negit
8	MS. CAHILL: Very few questions.	5	Island at about 6406, and you note that the two higher lake
9	MR. DEL PIERO: I am going to, since you are only	6	level alternatives would result in inundation of this
10	good for today, rather than running into a problem, if this	7	resource.
11	is not inconvenient, I would like to get questioning of that	8	Do you recall that?
12	one individual witness, both cross-examination and recross	9	MS. McGOWAN: A Yes.
13	out of the way now on the part of all parties, unless there	10	Q And you also note that this was apparently, this
14	is a big objection to that.	11	cabin was apparently constructed around 1861. Do you recall
15	MR. DODGE: I am wondering whether you are now	12	that?
16	accepting my suggestion that we go issue by issue?	13	A Yes.
17	MR. DEL PIERO: No, I am not, but I appreciate your	14	Q You are aware, are you not, or do you know one way or
18	giving me the opportunity to quality that (laughter).		the other, whether or not after 1861 fluctuations in the
19	But, in order to accommodate her schedule and also		lake level prediversion exceeded 6406?
20	make sure we don t run into any problems, that is what I am	''	A LUON L KNOW THAT.
	·	1	

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18 Q If you were to assume between 1861 and the onset of picture put up on top of the table and have the witness walk 15 diversions in 1940, the fluctuations of Mono Lake at its 19 16 over -prediversion levels routinely inundated this site; would you To my understanding, Parker Creek is no longer in its 20 17 Α have an opinion as to whether or not the higher lake level ٦1 18 original location. It was diverted and there is some , would then have an effect on this resource? 19 problem as to where that site -- the site is a previously The resource has not been recorded. There is no 23 Α 20 recorded site, but it was recorded on the old Parker creek 24 document that tells me about it, what its characteristics quad which apparently shows the original location of the 21 25 were originally when it was recorded. I got the information 22 site relative to the creek's original location, but I will 00059 23 tell you where it is, kind of general where this creek is. 1 from Scott Stine. I have no opinion about what its value is It is right in this area here. 24 one way or the other and I would need to know that before I MR. FLINN: Q We have got a problem identifying this 2 25 3 would know what effect the rise in lake levels would have 4 now or in the past. 1 area here for the record. I don't know the staff or 5 ۵ But focusing on the fact that the assumption is it 2 Board's view about allowing the witness to mark on this or was routinely flooded before, you don't have an opinion one 6 3 to have some sort of physical description. way or the other whether there would be anything negative I can't describe it really any better than that. is 7 4 Α 8 5 if it is flooded again? that okay. 9 I think that just from a general purpose standpoint, Α 6 MR. DEL PIERO: No, it is not. Everything here has 10 any site that is going to be flooded, if there is something 7 to be incorporated into the written record. 11 of value there, that the site is significant from a legal 8 Mr. Canaday, can you assist in terms of geographic perspective, it would not be good. It could cause an 9 12 location? 13 adverse impact to flood it. The fact that it is still 10 MR. CANADAY: Ms. McGowan, on parker Creek is the 14 visible and Scott was able to identify it suggests to me 11 site you are referring to below the diversion point? 15 there is something left to gather data about, that it is 12 А Yes, it is. MR. CANADAY: And it is above the Cain Ranch 16 worth doing something about. 13 17 α One other question for you. This is also from page 14 headquarters; is that correct? 15 18 3K-14. At the top you refer to direct impacts and you said: Α Yes, it is. Is this a road right here. I think that Indirect impacts could result from streamflows eroding 19 16 might be -MR. CANADAY: Well, the road that goes by the streambanks and damaging or destroying buried or surface 17 20 historical or ecological resources. diversions all the way along the conduit is here. 21 18 Did you have an particular buried or surface It is right in the vicinity of the diversion. 22 19 А 23 archaeological resources in mind when you noted that these 20 MR. CANADAY: So, it would be right immediately below 24 indirect impacts could occur? 21 or near the diversion site on Parker? 25 As I said, we didn't do any survey, but I did spend 22 Right. А А 00060 23 MR. DEL PIERO: Give the name of that map. four days in the Mono Basin taking a look at the recorded 1 24 MR. CANADAY: That would be Figure 1-3, diverted sites, and also, going to areas where I know there are sites 25 tributary streams from Mono Basin EIR. 2 that have not been recorded. I only saw probably two or three sites that I could 1 MR. FLINN: Q Was there any other site, was there a 5 classify that I would expect I saw erosion happening, 2 second one you could locate for us at all? 3 The second site was downstream from Highway 395 on 6 increased water erosion going to occur on sites on the edge Α 7 of the streams. 4 Walker Creek. It was probably down about half a mile. I went to see about 50 sites in four days, so there's some of 8 As I said, there needs to be a survey done to 5 9 determine which sites would, in fact, be affected by erosion 6 them kind of running together in my mind. 10 and to plot those boundaries, and to presumably identify 7 MR. FLINN: I appreciate that level of detail. ways to stop that. 8 Thank you, I have no further questions. 11 Q Can you recall now the two sites you had in mind that MR. DEL PIERO: Thank you very much, Mr. Flinn. 9 12 13 you just referred to? 10 MR. CANADAY: Can we clarify that a little better for Can I look at the map? the record, Mr. del Piero? Is that possible? 14 Α 11 15 MR. BIRMINGHAM: I'm going to object to the question 12 MR, DEL PIERO: Sure. MR. CANADAY: The site on Walker Creek is below if it is to identify the location of these sites inasmuch as 13 16 17 CEQA prohibits the disclosure of the location of 14 current 395 and above where Walker Creek is a tributary to 15 Rush Creek; is that correct? We have Rush Creek that flows 18 archaeological sites. MR. DEL PIERO: Actually, CEQA does not prohibit 16 here, Walker Creek -19 Yes. 20 disclosure. CEQA only advises that archaeological sites not 17 А 21 necessarily be distributed in departmental documents. 18 MR. CANADAY: -- goes across 395 and comes in just Archaeological sites are recorded systematically at State 19 above the Narrows, so it is in this section here between the 22 23 universities and that information is available to decision 20 narrows and 395 of Walker? 24 makers to determine ultimately whether or not the sites are 21 No, it would have been -- Where they converge is Α below that. It's called Rush Creek then. 25 worthy of protection. 22 00061 23 MR. CANADAY: Yes, where Walker Creek is a tributary 1 I don't think these maps are going to result in 24 to Rush Creek. disclosure of anything secret either. 25 Yes, then it is on Rush Creek, I'm sorry. It would 2 Α 3 MR. FLINN: Q This is Figure 1-3 from the Mono Basin EIR. It is the map of Rush Creek, Lee Vining, Parker and be Rush Creek because it was about a mile down from the 4 1 5 Walker, and I don't know how you want to look at this, but I 2 highway, so it would be too far down. It was past the will turn it over to you. 3 Narrows. 6 MR. CANADAY: It was below the Narrows toward the 7 Just so I am clear, this is the area where basically 4 Α 5 8 the project starts because this is the diversion; right? lake? Q If I could orient you, the diversion starts at Lee 6 Yes. A Α MR. CANADAY: So then, you are saying now that it is Vining Creek with the conduit that captures Walker, Parker 7) and joins Grant Lake Reservoir, the impoundment of Rush 8 not Walker Creek, it is on Rush Creek? 11 9 Α Yes. Unfortunately, I got down there from Walker 12 Creek. MR. DEL PIERO: In the interest of everyone, it would 10 Creek and I guess I didn't realize that I had gone into Rush 13 Creek territory. seem to me to be better if you could arrange to have that 14 11

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12	MR. CANADAY: So, it would be approximately a mile	9	during unsyst
13	downstream of the Narrows?	1 10	and Rush Cr
14	A About a mile, yes. I have it marked on a map, but I	11	Could yo
15	didn't bring it.	12	are?
16	MR. STUBCHAER: I thought there was testimony it was	13	A There is
17	a mile below 395.	14	sites were re
18	A About a mile below 395.	15	sixties by Da
19	MR. STUBCHAER: Now you say it is below the Narrows.	10	nad ner own
20	A I m sorry, it is about a mile below 395. MP. CANADAY: So it is above the Nerrowe. If 295 is	1 10	drainage and
21	here the Narrows is here Rush Creek	119	indication th
23	MR. DEL PIERO: The problem is she walked down	20	Native Amer
24	Walker; is that correct?	21	sites, so the
25	A That's right.	22	areas were s
	00065	23	for a lot of t
1	MR. DEL PIERO: You are pointing to Rush Creek and a	24	Instead,
2	mile from where 395 crosses Rush Creek is above the Narrows.	25	and there, ar
3	A mile from where 395 crosses Walker Creek is below the		
4	Narrows. Look at the map.		Q And you,
5	trying to understand which creek she is now saving it is an		in the future
7	MR DEL PIERO: Why don't you point it out so we can	4	A I have no
8	get it clear on the map.	5	did recomme
9	A I believe it was down right in here.	6	treatment pla
10	MR. DEL PIERO: That's on Rush Creek below the	7	to be restored
11	Narrows.	8	alternatives,
12	A This area right in here has eroded a lot and the	9	develop recre
13	creek is pretty wide through here, and there's these	10	selected, to
14	terraces and there's a recorded site there that's eroding	11	that are goin
15	down into the channel.	12	to treat the e
10	MR. DEL PIERO: Okay, thank you.	13	∩ Mostla
18	witness designated is labeled as the bottom lands on Rush	15	at restoration
19	Creek just below the Narrows.	16	there's going
20	A Can I add one thing? There are literally hundreds of	17	in the future,
21	unrecorded sites. You can walk along these creeks and you	18	activities prid
22	can find the ones that were previously recorded as well as	19	maybe you d
23	ones that are either a bigger version of the recorded site	20	A As Isaid
24	or an unrecorded site. There's literally sites all over the	21	archaeologic
25		22	ie doing som
1	I am sorry I don't have the exact location of this	24	are lots of si
2	one site, but there are virtually, probably at least	25	would assum
3	hundreds of unrecorded sites that are out there.		
4	MR. DEL PIERO: Thank you.	1	because as I
5	Where are we?	2	banks of the
6	Mr. Roos-Collins?	3	MR. HERP
7	MR. ROOS-COLLINS: No questions.	4	questions.
8	MR. DEL PIERU: Ms. Scoonover.	5	
3	MR DEL PIERO: Mr Ginsman? le be bere?	7	MR DEL
11	MR ONO No	8	I have a c
12	MR. DEL PIERO: Ms. Niebauer is not here.	9	E
13	Anyone else have any questions? Anybody have any	10	by MR. DEL
14	recross?	11	Q Just for
15	MR. FRINK: Mr. Herrera had a question he wanted to	12	like to disting
16	bring up.	13	presentation
17			as opposed t
18	DY MR. MERKERA:	10	A vve distri
20	activities that have been conducted under the direction of	17	in
21	the Restoration Technical Committee here for fishery	18	Q Let me ł
22	restoration work?	19	characterize
23	A I am familiar with some of that work. I haven't	20	site or an his
24	actually seen it.	21	A Actually
25	Q Have these activities impacted the cultural resources	22	historical-arc
	00067	23	situation who
1	of these tributary streams?	23 24 25	Q Do you
1 2 2	00067 of these tributary streams? A I don't know that for sure. I don't know what efforts are being undertaken to prevent that from bannening	23 24 25	Q Do you I A We were
1 2 3 4	00067 of these tributary streams? A I don't know that for sure. I don't know what efforts are being undertaken to prevent that from happening. I understand there are sites along those tributaries where	23 24 25 1	A We were
1 2 3 4 5	00067 of these tributary streams? A I don't know that for sure. I don't know what efforts are being undertaken to prevent that from happening. I understand there are sites along those tributaries where that work is being conducted, but I am not aware of work	23 24 25 1 2	A We were and not put to confuse the s
1 2 3 4 5 6	00067 of these tributary streams? A I don't know that for sure. I don't know what efforts are being undertaken to prevent that from happening. I understand there are sites along those tributaries where that work is being conducted, but I am not aware of work that is being done to prevent that.	23 24 25 1 2 3	and not put to archaeologica

8 are numerous archaeological sites that have been recorded

- ematic surveys along Lee Vining, Parker, Walker eeks
- u maybe describe what unsystematic surveys
 - very little documentation about how the
- corded. Most of them were recorded back in the
- vis. She was a professional archaeologist, but
- reasons for recording certain sites, and instead
- n systematically, maybe she walked along a
- recorded some of the big ones and if there was
- at she heard about some of the sites from the
- icans living in the area and recorded those
- e is no indication, for example, of which
- urveyed and which ones weren't for the most part ne basin.
- you get an archaeological site recorded here
- nd it is unclear how that actually happened.
- 00068 yourself, have you surveyed any of these ams or proposed to do any surveys other than here?
- ot proposed to do any surveys, although we
- nd in the EIR that work be done and that a
- in be developed once the areas that were going
- d were identified, and the recreational
- or what's going to happen to control or
- ation in the area, and which lake level is
- develop a plan to basically survey the areas
- g to be impacted by these activities, and then
- ites that can't be avoided.
- e recommendation in the EIR.
- m getting at a little bit is we are looking
- n activities to the streams and it appears that
- to be some ongoing restoration activities, and
- you recommend surveys to go along with those
- or to any kind of work on the streams, or
- ould elaborate a little on that.
- l, I don't know of any activities, pre-
- al surveys that have been done in advance of
- ongoing right how. Perhaps the Forest Service
- e of that. I don't know, but if they are, there
- tes out there that are going to be affected, I
- ne, if they are working on the streambanks,
 - 00069
- said earlier, the sites go right up to the tributary, at least in the two locations I saw.
- ERA: Thank you. That concludes my
- PIERO: Other questions by staff?
- K: No.
- PIERO: Do Board members have questions?
- ouple.
 - XAMINATION
- PIERO:
- the record, some clarification -- would you
- uish in terms of the way you make your
- the difference between an archaeological site
- o an historical site?
- nguish between the archaeological site and
- site by -- there can be archaeological sites
- help you out. Would you, for example,
- the egg collector's cabin as an archaeological torical site?
- unfortunately, I characterized it as an
 - haeological site. Sometimes we get into the
 - ere we -
 - know Mr. Bill Hutchison?
 - e trying to make it as accessible to the public 00070
 - oo many words in that we think are going to
 - ituation, and unfortunately, I think that all
 - al sites should be called historic or
 - chaeological sites, and all historic sites
 - 5 should be identified as structures or railroad, or whatnot.

Page 12

- 6 Unfortunately, that's a little unclear, I think.
- 7 0 In terms of identified sites that you are aware of in
- 8 terms of doing your initial review, where did you get your
- 9 information?
-) Α Of the egg collector's?
- 11 Q The recorded sites.
- 12 Α The recorded sites came from the U. C. Riverside
- 13 Information Center at the University.
- 14 0 The unrecorded sites, are they all -- what source did
- you use for those? 15
- 16 Α I visited the basin and walked around.
- 17 α Archaeologists do that,
- 18 Α I also talked to quite a few people who had been in
- 19 the basin and got some idea of what level of unrecorded
- 20 sites we are talking about. Fortunately, a lot of our team
- 21 had been looking for, you know, arrowheads for a long time,
- 22 and I got kind of an idea about how much stuff is lying
- 23 around there that is not in locations that have been
- identified. 24
- 25 Q I found one on the shore when I went out the first

1 time. 2

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Page 13

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- Just one last question, for the record, can you
- 3 identify what constitutes a site?

4 Well, in California there is actually a guideline to Α 5 that.

- 6 Q Yes, I know. That's why I am asking.
- 7 Α It is three items in association with each other and
- they can be anything or it can be a single feature in an 8 9 archaeological site.
- 10 Do you want to describe that in a little more detail? Q
- Α For example, a bedrock mortar site could just consist 11
- 12 of milling stones where people have milled acorns and there
- would be holes in the rock. You wouldn't need to have any 13
- 14 archaeological materials. You wouldn't have to have any
- little chips or anything like that. That could be a site 15 6 all by itself. Or you could have three of any artifacts
- together, would be a site. That is the guideline, and it's 18 three of anything.
- 19 a An arrowhead and two burned rocks?
- 20 Α Yes.
- Q 21 Indicating a campfire?
- 22 А Right.
- Q 23 Constitutes a site?
- 24 А Right.
- 25 a I wanted to make sure that was in the record so
- 00072
- 1 people who might not necessarily be familiar with how sites
- are identified can understand that a site may, although in 2
- normal usage, may indicate something particularly 3 4 substantive or significant, it doesn't necessarily.
- 5
- Alternatives sometimes can.
- 6 Α Just so you know in the Mono Basin that would be 7 considered background noise. The sites I am talking about
- 8 are miles wide. 9
- MR. DEL PIERO: Yes, I know that. 10
 - I have no other questions unless anyone else does.
- Good. Then, you can have the rest of the afternoon. 11
- We will keep you around just as long as you need to be and 12 13 when you need to leave, you can depart.
- At this point, Mr. Birmingham, why don't you begin 14
- 15 your questions of the full panel. 16
 - Thank you very much.
- MR. BIRMINGHAM: First, Mr. del Piero, I would like 17
- to state for purposes of the record, I would like to state a 18
- 19 standing objection that the Department of Water and Power has any evidence, any admission of any evidence concerning 20
- 21
- the air quality issues that are addressed in the
- Environmental Impact Report. I am making a standing 22 23 objection if the Hearing Officer will permit.
 - MR. DEL PIERO: That's permitted.
 - CROSS-EXAMINATION

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- by MR. BIRMINGHAM: 1
- I would like to address my first set of questions to 2 Q

- 3 Mr. Sculley, and I have just a few.
- Mr. Sculley, in connection with your analysis of air 4
- quality issues in Mono Basin, is it correct that you 5
- 6 prepared an estimate of the number of exceedences of the
- State and Federal ambient air quality standards that would 7
- 8 occur at different lake levels?
- 9 MR. SCULLEY: A Yes, I did.
- 10 0 And the Draft EIR air quality analysis is based upon
- wind erosion data that assumed that the relicted lake bed or 11
- 12 playa emits particulate matter at a uniform rate; is that 13 correct?
- 14 Α That is not correct. We separated the emission
- 15 source areas into several categories, assigned different
- 16 emission rates to them and different particle
- 17 characteristics which affect subsequent transport and
- 18 deposition, and result in concentrations. And we did not
- 19 use the direct modeling to derive the estimate of the number
- 20 of exceedences. That was a judgment made recognizing both
- the results of the modeling analysis and an analysis of the 21
- 22 extent to which you get recorded exceedences versus the
- 23 meteorological patterns.
- 24 There were some niceties to the analysis in terms of "
- 25 distinguishing different subareas as having different
- 00074

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- 1 emission rates and different emission characteristics.
- 2 Q Well, it is correct then that different areas of the
- 3 playa emit particulate matters at different rates?

high wind speeds.

4 Α That is correct.

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5 0 And it is correct that the rate of emission depends

that the way the real world works it's primarily substrate

have the primary influence on the emission rate. Wind

The model we used was not able to replicate the

changes in physical conditions, so it provides an estimate

of potential impacts working from the assumption that the

level to a more realistic assessment of how frequently you

might have the combination of susceptible conditions and

conditions, the extent to which there will be dust events in

I would put the most important factor being substrate

geochemistry of the efflorescent salt deposits which may tie

-- if by meteorological conditions you mean basically wind

speed and direction conditions, the substrate moisture is

to precipitation patterns, temperature patterns, relative

directly related to meteorological conditions, but primarily

So, it gets all complicated in that, but far and away

And the model, you said a few moments ago that the

when the wind exceeded a threshold level that there would be

Then, you would concur, wouldn't you, that the model

the first factor is really substrate moisture conditions at

the surface. If it is wet, it doesn't matter how hard the

model analysis makes certain assumptions and one of the

assumptions that the model analysis had to make was that

analysis that you prepared would tend to overestimate the

estimate of the number of exceedences, that would be the

number of exceedences that would occur on average?

If we had used direct modeling to try to get an

case. If, for example, you tried to model one or two or

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relates not to what the model assumes, but the actual

the Mono Basin does depend to a large extent on

moisture conditions followed by the mineralogy and

And we attempted then to extrapolate down from that

I am not sure you answered my question. My question

moisture and the mineralogy on the salt deposit areas that

conditions come into play only when the substrate conditions

6 to a large extent on meteorological conditions?

are susceptible to wind erosion.

substrate is in an erodable condition.

meteorological conditions; is that right?

humidity and evaporation conditions.

wind blows, you won't get anything.

emissions: is that correct?

That is correct.

7 The modeling analysis necessarily used that Α 8 assumption and I think we attempted to explain in the report

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1	three years of hourly meteorological data you would	23	going to address the bird issue, so I presume most of my
2	definitely overestimate, but what we nicked were 50 days of	25	else has information, they may answer
3	different meteorological conditions running from a day with	1 - 0	00079
4	only one hour of a high wind speed to days with up to 23	1	CROSS-EXAMINATION
5	hours of wind speeds to try to get a handle on how many	2	by MS. GOLDSMITH:
6	hours of high wind conditions at what lake levels are needed	3	Q I would like to start out with the subject of red-
7	to have the potential for a violation, assuming the	4	necked phalaropes, which is an important issue in the EIR.
8	substrates are all in erodable condition.	5	One of the things that the EIR states is that current alkali
9	Q When you say violates, you you mean exceedences; is	6	fly densities cannot be assumed to be non-limiting as a food
10	that right?		source for red-necked phalaropes; isn't that right?
11	A Exceedences.	8	DR. BEEDY: A That's correct.
12	Q And on that day in which you assumed there was a one-	10	that alkali flice might be limiting as a food source?
10	nour while that exceeded the threshold, the model would have	11	A Ves that's true, they may be limiting as a food
15	A No the model did not it depends a little bit on	1 12	source
16	where you want to measure an exceedence, but basically, in	13	define as limiting. The important point made in the Draft
17	my analysis of the results, I discounted a few isolated	14	EIR was the location of the birds, and not all areas of the
18	receptor points sitting on the major source areas. We	15	lake are equally suitable for habitat.
19	looked primarily at major public use areas and at monitoring	16	So, in those portions of the lake where the
20	station locations, and if you look at those sorts of areas,	17	phalaropes no longer appear too frequent, I think we could
21	our modeling analysis under the current lake level	18	assume that food could be limiting there.
22	conditions suggest that you need a minimum of four hours of	19	Certainly, other locations where the birds do seem to
23	high wind speed conditions in order to get a 24-hour average	20	be surviving, there is more food there.
24	PM 10 level that exceeds the federal standard.	21	Q So, it is not your conclusion that alkali flies may
25	Q With respect to exceeding the State standard, isn't	22	be a limitation on the red-necked phalaropes population at
_	00077	23	the lake; is that correct?
1	it correct that there will be exceedences at the State	24	A No, I didn't say that. I said that the amounts of
2	standard if the lake is raised to an elevation of the levels	25	flies at the lake appear to be within the range of
3 1	A Yes I believe there would be	1	olouationa maybe we should hack up and talk shout what
5	And there will be exceedences of the federal PM 10		the basic distribution of the birds is first
6	standard at those levels as well?	3	0 What I would like to do is focus first on the
7	A That gets into most of where the modeling analysis	4	population at the lake as a whole rather than the areas in
8	showed levels that were above the federal standard were	5	which
9	basically on Paoha Island and immediately offshore, and	6	A One way to test whether food is limiting or non-
10	those are essentially sitting on a major source area.	7	limiting for an organism, it doesn't matter whether it's a
11	Q Are you familiar with the federal Clean Air Act and	8	phalarope or squirrel eating pine cones. In ecology
12	the regulations promulgated to implement that act?	9	predators under a theoretical setting anyway, exhibit a
13	A Yes.	10	functional or numerical response to prey density.
14	Q Isn't it correct that under the Clean Air Act and the		A functional response is that they continue to
15	models promulgated to implement that act, if a model exists	12	increase their capture rate and foraging as prey densities
10	let me state the question because I misspoke.	13	increase up to some point where there is a satiation level,
17	ish till correct under the clean Air Act and the	15	The question is at Mono Lake, can we assume the birds
19	accentable to EPA predicts an exceedence of the federal EM	16	that we observe there exhibit any kind of functional
20	10 standard, that that prediction cap be used in determining	17	response compared to laboratory fed birds which were fed
21	whether or not an area is an attainment or nonattainment	18	much higher prev densities.
22	area?	19	So, the guestion is, at the lake itself do we observe
23	A That is correct. My understanding of the ERA	20	a functional response or anything approximating that. That
24	guidance is that the model that you use for that does not	21	is the point where the birds are mechanically unable to
25	allow you to put a receptor site on a source area.	22	handle more food.
	00078	23	Do you understand what I am saying?
1	And the model that we used runs and gives us a	24	Q Well, I think so, but I am not understanding how it
2	prediction for that, and that was one of the reasons that I	25	relates to my question.
3	did not put great emphasis or consider a receptor site on a	_	00081
4	source area to be indicative of a significant problem.		My question is, is it your conclusion that the alkali
5	MR. BIRMINGHAM: Thank you.	2	tiv might be limiting the population of the red-necked
7	MR. DEL FIERO: Thank you. MR. BIRMINGHAM: Ma. Galdamith will ask further	3	A think it limits the distribution of the nonulation
<i>'</i>	questions of this namel on issues relating to hirds :	5	A Funker limits the distribution of the population
å	MR DEL PIERO: Fine How long do you anticipate?	6	Ω is that a different answer than limiting the
10	MS GOLDSMITH: I certainly will go until noon 1	7	nonulation at the lake?
11	may go bevond noon.	8	A Yes, because the population of the lake varies year
12	MR. DEL PIERO: You have 11 minutes left in your	9	to year depending on factors totally independent of the lake
13	initial 20, just so you know.	10	itself. We are talking about birds that breed all over the
14	MS. GOLDSMITH: If I run over, I would ask for	11	high Arctic. So you are asking me the number of birds
15	additional time.	12	actually observed there every year is that what you are
16	MR. DEL PIERO: We will take that issue up later. 1	13	asking me?
17	am trying to figure out a schedule. I think it is probably	14	Q Yes.
18	safe for everyone to assume we aren't going to have anyone	15	A No, I think that's driven by all the kinds of factors
19	else come before the Board before we break for lunch.	16	that are not related to Mono Lake necessarily. My only
20	MD. DEL DEPO. M/htt des fans and a h		point is that once they are at Mono Lake they appear to be
21	IVIN. DEL PIERO: VVNY GON'T YOU PROCEED.	10	nigniy localized in their toraging, and what that means in their ability to get food at different loke devetions
<u>_</u>	wis, Goldswitter, As wit, birmingnant menuoned, I am	13	

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	Ambas at the statements of		
20	Q Am I correct in characterizing your change from your	17	point that you really
21	A haven't obenged from my	1 18	phalarope distribution
- 2	$\Omega = \ln v \alpha u r$ direct testimony?	20	New Dr Bubaga
,	Δ Oh ves	20	now, Dr. hubega
	0 My understanding of what you said and I'm sure you	21	concentration from the
20		22	fly densities in the M
1	will correct me if I am wrong, is that upon further	24	A Yes
2	consideration you now conclude that phalarones may be	25	O And she bases t
3	feeding optimally at Mono Lake?	2	
4	A No, I said we shouldn't be using the term optimally.	1	right?
5	They could be foraging optimally, meaning that they are	2	A Yes. Her field ob
6	doing the best they can given current prey densities, that's	3	actual measurements
7	right. They are not feeding anywhere approximating maximal	4	in the lake to find out
8	densities that they are capable of foraging under laboratory	5	are in the area where
9	conditions with food added at much higher densities than are	6	most of the time now
10	currently available at Mono Lake.	7	prey densities.
11	So, they are not exhibiting a functional response or	8	Also, Dr. Stine's v
12	association, but they could be optimizing their use of the	9	convergence of lake-w
13	environment, but as I said, I am not really in a position at	10	approximately that si
14	this point to discuss optimization. I don't know that Dr.	11	concentrate them in t
15	Rubega in her analysis even addressed the question of	12	Q She did her field
16	optimal foraging.	13	the lake was about e
17	Q I guess I am not clear at this point whether you feel	14	right?
18	alkali flies might be limiting the red-necked phalaropes	15	A Yes let's see, t
19	population at Mono Lake at current lake elevations?	16	Q 1990 and 1991,
20	A I think that the availability of alkali flies is	17	A Yes, '89, '90, '9
21	limiting the location of the birds. I think the number of	18	field notes from '89.
22	birds that come to Mono Lake, both Wilsons and red-necked,	19	Q The lake level wa
23	varies year to year depending on conditions far beyond Mono	20	A In that range, that
24	Lake, so we could have a higher or lower population one year	21	Q And isn't it true
25	than the next, but what's interesting is that they all	22	location of red-necke
	00083	23	A Yes, it is true.
1	appear to be in one part of the lake which tells me that	24	Q. I know you have
2	either that's the only place in the lake that's good forage,	25	but I would like to, w
3	or it's the best place. I'm not sure which that is.	<u> </u>	
1	At least we are not seeing the birds all around the	1	give the Board membe
	lakeshore that we did at high elevations.	2	testimony.
ò	Q All right. Now, talking, again, not about the	3	MR. BIRMINGHAN
7	visibility or location of the birds, but about the	4	exhibit?
8	population size, isn't it true that Dr. Rubega concluded	5	MS. GOLDSMITH:
9	that currently lake levels are sufficient to support the	6	Q This is LADWP's
10	food requirements of the red-necked phalaropes?	7	Exhibit 40 are a series
11	A In that area, that's right, from what we can tell.	8	captioned, distribution
12	The problem we have with this data set is that nobody	9	Lake, California, in 19
13	really knows how long phalaropes spend at Mono Lake. We	10	A Yes, that's corre
14	don't have good data on what their turnover rates are at the	11	at it.
15	lake, and so, in order to talk about how they are doing, we	12	Q The dates that a
16	would really need to have marked individuals and monitor	13	locations of the red-n
1/	them through a period of time and see if they are really	14	right?
18	gaining weight or not, and we don't have that kind of data	15	A Inat's correct.
19	available right how.		Q And when these
20	Q ine EIR stated that at the lake's lowest historical		were made, the lake
21	elevation sufficient food was apparently available to	18	Isn't that right?
22	support populations of ear grebes and phalaropes at levels	19	A fes, it was iso
20	Λ That a correct statement in the EIP, that's right	20	A Thet's right
24	A mail a correct statement in the EIR, that's right.	21	A that's right.
20		22	distribution of rod nor
1		23	ambaumont?
2	has changed a little also since the early 1980s?	25	
2	Δ As far as I can tell, there has been quite a change	20	A Tes, Trecall there
	in lake elevations during that period. The red-pecked	1	there were more than
Ē	nhalarone according to Dr. Jehl's most recent data	2	embayment I guess
ē	apparently there were a lot more of them this year a lot	2	anticinating your quee
7	fewer Wilsons, so that's data I didn't have at the time I	4	Q You prohably are
8	read the EIR. The actual numbers visiting Mono Lake is not	5	comparison of these d
9	necessarily driven by what's at Mono Lake right now.	6	that the red-necked pl
10	There's a whole lot of other factors: how well they did on	7	part of the lake as is s
• 1	their breeding grounds, how many other lakes there are that	8	A Based on the 198
55	they stopped at in migration, and a whole range of other	9	be a correct statemen
13	I mean in a great basin, how many wetlands are there. That	10	the birds were where
14	has a lot to do with how many birds you actually see at Mono	11	pattern repeated itsel
-	, , , , , , , , , , , , , , , , , , , ,		

- 15 Lake.
- Q Now, going to the other point, which is, I think, the 16

- focused on, and that is in terms of
- n or phalarope visibility in the
- ake.
- suggests that the shift in phalarope
- he West bay of Mono Lake to the Eastern
- the limited food availability, that is
- lestern embayment; is that right?
 - hat on her field observations; is that
 - 00085
- servation of birds and also of
- that she and Dr. Herbst have taken out
- how many free-floating larvae there
- the phalaropes appear to be foraging
- , which is the area that had the highest
- work has shown there's a
- wide currents coming together
- de of the lake which also would tend to
- that part of the lake.
- observations in 1990 and 1991 when
- levation 6374 and 6375; isn't that
- that was '89 through what?
- I believe.
- 1 -- she started in '89. She has
- as basically --
- at's correct.
- that Dr. Jehl documented the
- d phalaropes in his 1986 paper?
- got a copy because I saw it earlier,
- vith the Hearing Officer's permission,
 - 00086
- ers a copy of Exhibit 40 Dr. Jehl's
- 1: For the record, is this LADWP's
- Yes.
- Exhibit 40 and on page 190 of LADWP
- s of maps of Mono Lake which are
- of red-necked phalaropes at Mono
- 81 and 1982; is that correct?
- ct. I have read it. I have looked
- re given for these maps document the
- ecked phalaropes at that time; is that
- maps were drawn and the observations
- was at its lowest historical state;
- and 1982, that is right.
- ns were approximately 6372 and 6373?
- that there is a substantial cked phalaropes in the Western
- e were nine of the 14 dates where
 - 00087
- half of the birds in the Western
- -- go ahead and finish your -- I am
- tion.
- Wouldn't you agree from a
- lata that you really cannot conclude
- halaropes are restricted to the eastern
- uggested by the EIR?
- 1 and 1982 data, I think that would
- t. I don't have an explanation for why
- they were in 1981 and 1982. Had that
- If -- I, personally, remember seeing,
- 12 you know, thousands of phalaropes in the Western embayment
- 13 of the lake at higher elevations in the mid seventies, and

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- 14 also, again in the mid eighties walking from Danburg Beach 11 to birds. to Lee Vining Creek, or whatever. 15 12 16 I don't have a good explanation for that. 13 cross-examination. 17 In Dr. Jehl's testimony -- which exhibit number would 14 18 that be? 15 19 I'm not sure what the exhibit number would be. 0 16 17 20 Α You passed it out to the people. 21 Q Exhibit 40 is the copy of this paper. 18 22 Α Okay. He references the fact he has a dozen years of 19 23 data on the distribution of phalaropes. I would point out 20 the draft you just distributed only illustrates the data for 21 24 25 one species for two years. I have not seen the rest of the 22 00088 23 1 dozen years of data. I requested it in writing and in 24 Α No, it didn't. 25 2 person several times. Q 3 I have been to the east side of the lake with Dr. 4 Jehl with several other people, including Dr. Rubega, and 1 5 the point is that during the last four years there has been 2 Α 6 a pattern, whereas there wasn't one before, and the best 3 scientific data available suggests that it is driven by food 4 7 8 availability or lack thereof. 5 The best scientific data we have to review suggests 9 6 10 that this pattern, I don't think Dr. Jehl would dispute 7 11 during the last four years -- I Would love to see his data 8 That's correct. Α 12 for the other dozen years, which as I have said, I have 9 0 13 never seen. 10 14 We could discuss his trend analysis there on the lake did they? 11 15 data, if you would like to do that, which is the data 12 Α 16 presented in his testimony. 13 didn't. But, basically, we have one species for two years. 14 17 We do not have the full span of data that Dr. Jehl has 18 15 out on Negit Island ---19 available to look at, and all I can say is that he was one 16 20 of the people that told me they are mostly in the 17 21 Northeastern sector of the lake, and they have been there 18 next two years. consistently for four years, and again, all of the data that 📰 22 19 0 23 I have had to look at suggests that food is probably the 20 Α most likely explanation for that distributional pattern. 24 21 25 I haven't heard another plausible explanation. 22 00089 23 was. 1 ā And you believe that is a plausible explanation 24 despite the fact that at lower lake levels -2 25 3 Α I don't know how much food was available in 1981 and 4 1982. You might want to ask Dr. Herbst what the 1 availability was. That was the first time that the lake had 5 2 Α gotten to that level. Now, in less than a decade it went 6 3 α down there again or very close to it. I don't know how that 7 4 5 8 affects the dynamics in the lake. 9 Weren't there other factors you have considered that Q 6 10 affect phalarope distribution? 7 Α Yes. Yes, go ahead and maybe you can suggest some other 8 11 Q hypothesis. I guess we have the tourist hypothesis that was 9 12 promoted in Dr. Jehl's testimony. I don't consider that a 10 13 Α Yes plausible explanation based on what I have observed of 11 14 Q 15 phalaropes both at Mono Lake and everywhere else I have ever 12 16 looked at them. 13 17 They are very tame shore birds. You can walk up within 14 Α That is correct. 15 18 a few feet of them when they are foraging or take a boat. ۵ There have been lots of people going to south tufa for years 16 19 and around the Western embayment of the lake, and if it were 20 17 truly an avoidance of humans, I think that the birds 21 18 Α probably fly a few hundred yards offshore, or not even that 22 19 far, maybe 50 yards down the beach and settle down again. 23 20 α 24 They are not being harassed by people at Mono Lake and there 21 is no reason to suspect that increased visitation has caused 22 25 00090 23 А 1 the birds to move ten miles across the lake to the most 24 25 2 remote part of the lake and stay there. 0 3 Do you know whether there are -MR. DEL PIERO: Ms. Goldsmith, your time is up. 1 4 5 MS. GOLDSMITH: I would ask for additional time. 2 Α That's right. MR. DEL PIERO: How much and why? 3 Ω 6 7 MS. GOLDSMITH: I would ask for it because this is an 4 8
- extremely important subject dealing with Los Angeles and there's a lot of areas to question, and the EIR conclusions 9
- 10 were based on large part on some of the conclusions relating

- I believe I have probably 15 minutes additional
- MR. DEL PIERO: Fine, 15 minutes.
- MR. BIRMINGHAM: Excuse me, for purposes of
- conserving our time, I wonder if the witness could be
- instructed to answer Ms. Goldsmith's questions and limit his
- response to an answer of the pending question.
- MR. DEL PIERO: We are all going to try.
- MS. GOLDSMITH: Q Let's turn now to sea gulls,
- California gulls. The DEIR did not list destruction of gull
- nesting on the Paoha Island as a significant environmental
- impact in any of the alternatives; did it?
- And that was because a large acreage on Negit Island
 - 00091
- will become available if the lake grows; is that right? That's correct. Well, really, at lake elevations,
- predictably about 6383.5, we predicted Negit Island would
- not be land bridged and it is basically no longer limiting.
- Q Now, the lake has gone up and down in the last 14
- years and Negit has been land bridged and become an island,
- and become accessible again; isn't that right?

- When the lake rose in 1982 to 1984, and Negit became
- an island, the gulls didn't immediately move back to Negit;
- No, I wouldn't have expected them to, but they
- Q In fact, they didn't move back until decoys were set
- A I don't know what the role of the decoys was. It is true they did not move back like the next year or even the
- Decoys were set out; isn't that right?
- I wasn't present for the decoy placement. I don't
- know what the effect of the decoys was. I did read a paper
- by Shuford but I don't know what the effect of the decoys
- Q Now, the EIR concluded that maintenance of Negit as
- an island does not appear to be crucial to the success 00092
 - nesting of the Mono Lake gull population; is that right?
- Within a narrow range, that's a true statement.
- And both Dr. Winkler and Mr. Shuford have set forth
- the hypothesis that a substantial reduction in the
- productivity of the gull colony occurs whenever there is a major disruption of the nesting population; is that right?
- And that's due, according to their point of view, to
- territorial fights and predation of the chicks and --
- And, in fact, that's what happened when Negit Island

- I wouldn't suggest that you opine on the cause of it.
- Now, isn't it true that 28 percent of the colony now
- is nesting on Paoha Island?
- It depends on which year you look at, but that's
- approximately the right number.
- And that these gulls would be displaced from these
- islands under the environmentally superior alternative that
- Yes, under most elevations there would be
- displacement of Paoha islets, right.
- And at the same time, some nesting habitat at Negit

- was lost as a breeding site; isn't that right, that the
- production went down?

- is identified in the EIR?

- 00093
- islets would be lost, too; isn't that right?
- Now, isn't it true that the Paoha islets have
- provided excellent nesting habitat for the gulls?
- 5 They certainly had high reproductive success in most Α
- years there. I would qualify that by saying that overall, 6
- you know, substantially few gulls are there. We can talk

- 8 about the details of Paoha, if you want me to.
- Ω Isn't it true that the per-egg productivity for the
- 10 species on the Paoha islets in 1990 is the highest that it has ever been recorded for any colony of gulls anywhere in this range?
- .3 A I couldn't say that. I haven't looked at all the
- 14 data from every colony of gulls in this range. I know that
- Dr. Jehl said that, but I don't know that I have fully 15
- reviewed that data, but that could be a true statement. 16
- 17 Q Dr. Jehl has studied California gulls extensively;
- 18 has he not?
- Yes, he has. 19 Α 20 0
- And throughout its range; isn't that right. 21 ٥
- Yes, I believe he studied them in Wyoming, Utah and different places. 22
- 23 And he also has dealt in historical history of the Q
- 24 California gulls in the Western United States?
- 25 Α Yes, he has.

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- 1 α Isn't it true that we don't have comparative data for 2 the nesting success of the gulls on Negit Island?
- 3 Comparative data, well, we have data from 1976 Α
- basically, because in '79, the land bridge occurred and then 4
- we didn't have good data for '77 and '78. 5
- 6 Q When I say comparative data, I mean comparative
- 7 between Negit Island and the Paoha islets.
- 8 As far as reproductive success Α
- 9 That's correct. 0
- Α Just the '76 data would be the best data for --10
- 0 Do we have any '76 data for Paoha islets? 11
- Well, the Winkler study -- the actual survey that was 12 Δ
- 13 done was published in '77. The survey was actually survey
- was done late in the breeding season, actually around July 4 14 to avoid destruction of the colony. 15
- I happened to be at Mono Lake when those surveys were 16 17
- done, so there is some evidence, but you have to qualify Q that by saying that it wasn't early breeding season data, like May data, which we would be comparing it to, so we
- don't have a complete data set for '76, only the knowledge ۵2
- that there were, what was it, 33,000 gulls breeding on Negit 21
- 22 Island at that time.
- 23 Q So, we have a population?
- 24 We have a population count and we have a late season Δ
- 25 breeding count, or reproductive success count essentially.

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1 Isn't it also true that the brushy habitat in which a 2 they nested on Negit in 1976 is different in type than the 3 habitat in which they nest anywhere else in the lake? 4 Α Well, again, I haven't been all over the lake. I 5 couldn't say that. I do know that the birds nested 6 successfully in the greasewood habitat on Negit Island, at least since Dawson was there in 1919. In this photographs 7 and description of the California gull colony -8 MS. GOLDSMITH: Mr. del Piero, this is not responsive 9 to any question and I would like to cut it short. 10 11 MR. DEL PIERO: Go ahead and ask your question. 12 MS. GOLDSMITH: Q Is it different from anywhere else 13 in their range? MR. DODGE: Mr. Chairman, I object. The answer was 14 15 totally responsive to the question. 16 Α I was trying to be responsive. I'm sorry, Ms. 17 Goldsmith. MR. DEL PIERO: The question was, is this similar or 18 19 dissimilar to any other nesting area within their range? 20 I suspect Mono Lake is unique in the range of the Α 21 California gull in terms of the basic habitat. I can't say 22 whether they breed in shrub. I do know of other colonies Where they have nested in shrub habitat. 23 24 MS. GOLDSMITH: Q What are those colonies? ۰5 There is one in Bamford (phonetic) Lake that did nest Α 00096

on shrub habitat, a shrub-dominated island, although the 1

- birds nested in both shrubs and open areas. 2
- 3 0 Have you seen pictures of Bamford Lake?
- 4 Just in that article. I have not been throughout the А

- 5 range of the species.
- Now, under the 6383.5 alternative in the EIR, Paoha 6 0 7 Islands will be inundated?
- 8 Α Yes, for the most part.
- And isn't it true they will be planed down by wave 9 0
- 10 action?
- That's my understanding from Dr. Stine's analysis. 11 А
- 0 As the lake declines, if it does, that they will not 12
- 13 re-emerge as nesting habitats?
- That is my understanding. I'm not sure. 14 Α
- 15 0 So, in that case, under the 6383.5 alternative, that
- habitat, which has been very successful for the birds, will 16
- 17 be permanently lost; isn't that right?
- 18 Α Yes, that habitat would be lost.
- 19 0 Now, it is true; isn't it, that the gulls at Mono
- 20 Lake are not currently habitat limited?
- 21 That's as of what elevation you are talking about --Α
- 22 my calculations in the EIR were that when Twain and Java
- 23 Islands are land bridged that they could be habitat limited,
- 24 and we know now that Java would be land bridged at 6375. It
- 25 depends which elevation you are talking about.

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- 1 Q The current elevation.
- 2 Α It all depends on whether Twain is invaded by
- 3 coyotes. That's the question.
- 4 0 Dr. Jehl has identified substantial acreage on the
- 5 Paoha islets which he feels is suitable nesting habitat to
- 6 accommodate additional nesting; isn't that right?
- 7 Α Yes. I have looked carefully at his maps and tried
- 8 to overlay the different years of distribution and it does
- 9 appear that they tend to breed in the same general location
- 10 year after year, and they tend to be correlated with the
- 11 substrates on the islands if you overlay those maps. There
- 12 are substantial areas, as far as I can tell, that have not
- 13 been occupied by gulls in the past.
- 14 0 You are basing your opinion on historical nesting
- 15 patterns?
- 16 Α As presented by Dr. Jehl.
- 17 Ω Isn't it true that the nesting population on the
- 18 Paoha islets has been increasing virtually every year since
- 19 about 1986?
- 20 A I would have to look at the data for Paoha islets.
- 21 Certainly the high year was 1992, which was much higher. I
- 22 don't know that I could say there has been a direct linear
- 23 change. I would have to look at the data to determine that.
- 24 Certainly, the last three years there have been higher
- 25 numbers of gulls appearing at the lake and all the islets

1 are occupied three of the last four years.

- MR. DEL PIERO: Ms. Goldsmith, I'm going to give you 2 3
- an extra five minutes. You have ten left. 4
 - MS. GOLDSMITH: Is that including the five?
- 5 MR. DEL PIERO: That includes the five.

for the future expansion of the colony?

that could provide for future expansion?

6 MS. GOLDSMITH: Q Now, the DEIR concluded that the

Yes. That doesn't mean I believe that there would be

7 gull habitat could increase by about 330 percent if Negit is

that many gulls. It is just potential habitat. It is

suitable areas for them to nest. They may or may not.

The DEIR concluded there would be significant

benefits; isn't it true, from habitat which would provide

you use for assessing the impact of lake levels on the

California gull population, the availability for future

Is your question that Negit has substantial habitat

My question is, isn't that one of the measures that

And so, that presumes that there is an assumption

that if the nesting habitat increased, gull population will

No, not necessarily. I am just saying that there is

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8 re-established as an island. Do you recall that?

expansion of nesting?

Yes, that's right.

9

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plenty of room for it. I don't think it has ever been shown 2 25 Mewaldt papers suggested 70 percent increase in the 3 at Mono Lake that increasing acreage has caused an increase 00102 in the population. I don't think that we could say 4 population in the Pacific states since 1960. 1 5 increased habitat areas would necessarily cause an increase 2 So, I would say that Mono Lake is not a key habitat 3 6 in the population. area for that species. There's a long commute distance to Q Is it your opinion that increased nesting habitat for 4 7 get fish, which is the primary thing they eat. They don't the California gulls is an important benefit? 5 8 eat flies and shrimp. A Secure nesting habitat at Mono Lake is an important 9 6 And so, basically, as far as the analysis is benefit for the gulls. 7 concerned, I didn't see any reason to highlight the Caspian 10 8 ۵ The question is different. The question is, is Tern more than any other migratory bird that is native, 11 12 increased nesting habitat important for the gulls at Mono 9 robins or, you know, Western meadowlark, or whatever. They 13 Lake? 10 are on the same level and they are a species of concern It certainly could be if the population increased in 14 Α 11 because they are a native wild migratory bird, but not 15 the future. 12 because there is any clear impact, and there is no reason to Q If the population increased in the future, do you believe that if the Paoha islets were inundated at a higher 16 13 17 think they would be likely to feed on alkali flies as they 14 elevation, the birds wouldn't simply shift back to the Negit 18 do at present? 15 islets. 19 А They forage on flies and shrimp. 16 You know, frankly, that's the answer. 17 0 20 0 And if flies are a limiting food source for other They don't nest on the Negit islets other than Twain 21 bird species, there would be a possibility that the gull 18 and Pancake? 22 population could impact either the flies or the other bird 19 А Not that I am aware of, but they certainly nest in a species, or both; isn't that right? 23 20 whole range -I don't know. I would have to think about that. I 24 21 Q Thank you. Coyotes are able to gain access across Α don't know what effect the California gull would have on the water to some of the nesting areas; aren't they? 25 22 00100 23 Α Yes. 1 alkali fly. I don't know the answer to that question. 24 Q Under the 6377-foot alternative, the EIR concluded 25 2 Q Now, in looking at the lake and what would happen as that Twain and Java islets could be land bridged one percent 3 the lake level went up, did you analyze the impact on the 00103 of the years during extreme droughts; isn't that right? 4 Caspian Tern nesting habitat at Mono Lake if it goes up? 1 5 Are you asking me, did I describe the Caspian Tern in 2 Α Yes -- no -- was it one percent of the years? I the document or did I describe it in the impact analysis? 3 can't remember. 6 7 Q I am asking whether you considered the impact on the 4 a It was one percent. It is 3F-70. 5 MR. DODGE: Objection on the grounds of ambiguity. I nesting habitat. 8 9 No, I didn't. 6 am concerned about whether we are talking about access or --Α MS. GOLDSMITH: I will clarify that in a moment. We 10 Q Isn't it true that the current nesting habitat would 7 be lost for the Caspian Tern if elevations associated with 8 are not talking about physical land bridging, we are talking 11 the alternatives of 6383.5 and higher? 9 about access. 12 13 Well, the simply answer to that would be, yes, but 10 MR. DODGE: I wonder if I might finish my objection? there's a lot more to it. Do you want me to tell you? 14 MR. DEL PIERO: Mr. Dodge is going to finish his 11 15 MR. DEL PIERO: You have to be careful what you ask 12 objection. I don't think I am going to rule in his favor, 16 for because sometimes you get it (laughter). 13 60 MS. GOLDSMITH: Q How quickly can you do it? 17 14 MR. DODGE: The question was ambiguous. When you use I will try to do it quickly. I will give you my 15 the words land bridge, I don't know whether that means 18 Α 19 basic reasons for not including it in the impact analysis. 16 coyote access or whether it means a physical bridge so they Number one, the first question I would ask, does the 17 20 can walk across without getting their feet wet. 21 bird have any legal protections? Is it threatened, listed 18 MR. DEL PIERO: Ms. Goldsmith. MS. GOLDSMITH: That was a quote from 3F-71 and at the State or Federal level? Is it a candidate for 19 22 23 listing anyplace, or do any major resource agencies have 20 perhaps Dr. Beedy would like to look at it and tell us. 24 concern about the bird? 21 MR. DEL PIERO: Overruled, Mr. Dodge. 25 If the answer to those questions is no in all cases, 22 Would you be kind enough to restate the question? 00101 23 MS. GOLDSMITH: Q Maybe I can do it a little 1 it is not listed, not a candidate and it is not a species of 24 backwards and clarify it. special concern, the second question would be, is there a 25 At page 3F-70, the EIR states that the lake would 2 00104 з mechanism that could adversely affect the species and could 1 decline to a minimum elevation of about 6373 feet; isn't 4 that lead to some cumulative effect or population effect that right? 5 worldwide, or whatever? 2 3 6 We have 14 nests there or so a very small number, if А Yes. 4 Q And Twin and Java islets are physically land bridged the bird is not protected and not likely to be protected any 7 5 at a lower elevation; isn't that right? 8 time soon, you probably know it is a cosmopolitan species that occurs all over the world, Africa, Australia, all over 6 6372, that is correct. 9 Α 10 North America, so it is not a bird that is highly localized 7 Q But the EIR concludes that Twain and Java islets could be land bridged about one percent of the time during in its distribution, and furthermore, getting to the 8 11 question you asked, is there a mechanism of impact; well, 9 extreme droughts --12 10 prior to 1982, we know the birds were first observed in Mono А Physically land bridged, that is right. 13 14 Lake in '72. We don't know the breeding status at that 11 Q Physically landbridged? 12 15 time А Yes. It says land bridged one percent of the years during 16 Winkler's group did document nesting on Twain islet 13 Q 14 extreme droughts, 6372. I believe that's right; isn't it? 17 and where they were nesting on Twain islet was actually 15 (At this point, Mr. Casaday made a reply to 18 quite a high platform which was probably elevated above any Dr. Beedy which was inaudible.) of the levels that we are takeng about in this analysis. 16 19 So, we know they nested there until 1982, at which MR. BIRMINGHAM: Could I ask Mr. Casaday to speak up? 20 17 18 I didn't hear what he said. 21 time the coyotes gained acress to Twain and Java islets, and the birds shifted over to Paoha islets where they have 19 MR. DEL PIERO: Do you want to grab that microphone? 22 MR. CASADAY: Proceed with your question and I will 20 nested ever since with variable success. 23 The population rangewise is increasing. The Gill and 21 see if I can answer. 24

22 MR. BIRMINGHAM: For the purposes of the record, I 19 I agree there's gull nesting --0 23 wonder if we could have Mr. Casaday repeat what he said. Yes, it isn't just one island, is my point. The 20 Α 24 MR. CASADAY: A My recollection is that that data 21 referred to what I would call effective land bridging, which 25 22 Ο 00105 23 1 is not necessarily physical land bridging but accounts for 24 Α 2 the shallow water that covotes can cross: 25 MR. BIRMINGHAM: Thank you, Mr. del Piero. 3 4 MS. GOLDSMITH: A If you were told that the EIR's 1 0 5 drought analysis incorrectly forecast the minimum lake 2 6 levels to be one foot lower than what would actually occur; з Α 7 would that affect your conclusion about the percentage of 4 0 8 time at which Twin and Java would be land bridged? 5 q No, actually it wouldn't because, as I said in my 6 Α 10 introductory remarks, I assumed 6373 for land bridging or 7 Α 11 actual physical crossing of the coyotes. Now we have data 8 12 from this last year that they actually crossed at 6375 due 9 listing. 13 to the fact that there was an error in the drought analysis 10 Q 14 of one foot; we are shown that they would cross at two feet 11 higher than they did before. 15 12 Α 16 Q Would it affect your analysis of how often Negit 13 0 17 Island would be effectively land bridged? 14 No, my recall -- how often would Negit be land 18 Α 15 Α 19 bridged in the 6377 alternative? Do you remember what the 16 20 percentage was? 17 21 Q I believe it was two to four percent. Assume it was 18 Q 22 two to four percent, might it affect that analysis? 19 Α 23 It could if there was a real change in the model 20 1988. Α 24 output; yes, it could. 21 0 25 Q Do you expect to re-evaluate that before you do the 22 00106 23 Α 1 final EIR? 24 Q 2 Α Yes, if there is an error in the numbers in the 25 3 analysis, I would certainly take a look at those and see if 4 that would be likely to affect it. 1 5 MR. CASADAY: A Ms. Goldsmith, that two to four 2 6 percent of the years is an estimate for Negit and the 3 7 document you are referring to is not based on the drought Δ 8 analysis, so that wouldn't be affected by the revised 5 9 drought analysis. That was part of the original analysis 6 10 based on the historic record of 50 years. 7 11 So, that has not been challenged as far as I know. 8 12 DR. BEEDY: A I guess the answer would be that if 9 α 13 the data for Negit Island would not change, I wouldn't 10 Α 14 change my analysis of Twain and Java. With the new data, I 11 15 would have to say that there is certainly high potential for 12 16 land bridging at a higher elevation than I predicted in the 13 17 EIR. 14 18 Q Given the relative uncertainty about lake levels at 15 19 which terrestrial predators such as coyotes can gain access 16 habitat. to the various islands, and as a general proposition, isn't 17 20 Q 21 the dispersion of nesting areas along many islands the best 18 Α 22 protection against the possibility of total destruction of 19 23 the colony by coyotes? 20 24 Again, it would all depend on the level of elevation. 21 0 Δ 25 Negit Island is a very large island with a lot of different 22 00107 23 1 habitats on it, and I would say your question is multiple 24 islands versus one large one, and I guess I would have to 25 2 3 see Negit Island in operation before I could really answer that question very effectively and look at what the actual 1 4 5 incidence of land bridging and coyote predation was. 2 3 6 Because if there was a broad barrier of water between 7 the mainland and Negit Island, I wouldn't necessarily agree 4 Α 5 Q 8 a bunch of small islands were better than one big one. So, putting all your eggs in one island -6 9 ٥ Α 7 10 It wouldn't be just one island because, of course, Α 11 you can look at the dates of emergence of all the different 8 Α Yes. islands and realize there is still substantial habitat at 9 12 13 Negit Islands in most of the elevations. The largest one 10 11 4 emerged in the 1930s. 15 Dr. Stine can give you the exact numbers there, but 12 13 16 certainly, as early as 1919 they were nesting on what 17 appears to be the of Aloha Tahiti Island, so, you know, 14 15 18 there's --

Paoha islets would be gone, that's right. Compared with Negit, would you expect there would be substantial numbers on the Negit islets? Well, all I can say is go back to 1976 when both were available and they nested on both areas. 00108 And it's true that coyote predation on Negit provided a major disruption of the colony; isn't that right? In '79. Now, I would like to turn very very quickly to the snowy plover and ask you whether or not snowy plovers are a federal candidate or threatened and endangered species? Yes, they are a federal candidate. The coastal population was the one that was actually proposed for But the ones at Mono Lake are candidate species; isn't that right? Yes, C-2. Mono Lake holds about 11 percent of the State's breeding population? Something like that, although the data from Owens Valley -- I haven't seen any data since 1988, but as of 1988, that would be a correct statement. That is what is reported at page 3F-34 of the EIR Yes, I think I qualified that was the data as of Now, for the California gull impact assessment, you had two objectives. The first -- I am quoting from -Are we talking about snowy plovers or gulls here? We are talking about gulls right now. This question relates to gulls. 00109 At page 3F-50, you had two objectives for California gull impact predation methodology. The first was, estimate the acreage of suitable gull nesting habitat available for the Mono Lake colony under each alternative, and the second one was to determine whether availability of suitable island nesting habitat could potentially limit the size of the colony under each alternative; isn't that correct? That's what it says there. Did you do a similar analysis for snowy plover? Yes, we did. Actually, I took a look at what the habitat territorial size requirements for an individual pair were and based on Mr. Jokerst's analysis of the available barren habitat around the lakeshore and what Mr. Page and Mr. Shuford have told me about snowy plover breeding requirements, we estimated the acreages with those kinds of For the existing populations; isn't that right? Based on the existing population. One year before the point of reference that is the population number we looked at. But just to compare the approach for gulls and snowy plovers, the loss of half approximately of the existing available nesting habitat for the snowy plover, a federally endangered species, was not considered to be significant, while the expansion by 330 percent of the nesting habitat 00110 for the Crowley Lake gulls which may or may not be habitat limited either, was considered a significant benefit; isn't that right? The question again was --Can you answer that yes or no? I could, but you know MR. DEL PIERO: You will. MR. DEL PIERO: Thank you.

- MS. GOLDSMITH: I have one last question --
- MR. DEL PIERO: And then your time is up.
- MS. GOLDSMITH: Q Isn't it true, California gulls are one of the principal predators of snowy plover nests?
- They are one, probably the greatest one, but I would
- have to double check that.

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- Q At page 3F-35 of the Environmental Impact Report, 16 13 California gulls are identified as the primary predators of 14 especially high biological values? 17 snowy ployer clutches. 15 18 Α I have no further questions. 16 19 20 MR. BIRMINGHAM: Excuse me, I would like to make an 17 21 application for an additional ten minutes of time to ask 18 questions regarding vegetation, and the basis on which I 19 22 23 would make that application, if the Hearing Officer wants to 20 hear the basis, is again, we are attempting to cross-examine 21 24 25 on a wide range of subjects on documents that cover hundreds 22 00111 23 1 of pages, and when you include the auxiliary reports, 24 25 2 thousands of pages. 3 The last series of questions, unfortunately took much 4 longer than we had anticipated because of the exchanges that 1 were going on, and I think I can ask the questions in a very 5 fringing wetlands; yes, that is correct. 2 short period of time, ten minutes. 6 3 7 4 MR. DEL PIERO: Mr. Birmingham, normally the way this address that issue with respect to the types of --8 process has gone is when we have more than one attorney 5 Α 9 6 representing a party or group of parties, one attorney asks the tributary streams. 10 his or her questions and the next attorney asks his or her 7 Who would address that? Q 8 questions, and we don't have tag-team operations. А 11 Ken. 12 I will grant you five minutes after lunch. 9 And from now on, ladies and gentlemen, what I just question here? Would you repeat the question? 13 10 14 outlined is the way it will be. 11 Q 15 MR. BIRMINGHAM: That's the way we will conduct our 12 16 cross-examination in the future, Mr. del Piero. 13 if we look at Table 3C-14, it shows that the total acreage For the record, I would note, in fact, on one of the of riparian and wetland vegetation in the Mono Basin is 17 14 18 panels my learned colleagues from Morrison and Foerster 15 greater under the 6377-foot alternative than under all 19 engaged in that approach as well, but from now on, we will 16 higher lake level alternatives? 20 do as you say. 17 MR. DEL PIERO: Thank you. 21 18 22 Ladies and gentlemen, we are going to recess until 19 now just about the riparian and wetland habitats along 23 1:45. (Noon recess) 20 tributary streams, so I guess your more general answer for 24 21 the whole basin, two yeses make a yes, I guess. 25 22 Q So, with respect to lake fringing wetlands and 00112 23 wetland riparian habitat along the tributary streams, they WEDNESDAY, OCTOBER 27, 1993, 1:45 P. M. 1 24 are more extensive under the 6377-foot alternative than in 2 --000--25 any of the other higher lake alternatives? 3 MR. DEL PIERO: Ladies and gentlemen, if you would 4 take your seats, I would like to begin. This is a 1 5 continuation of the hearing held this morning by the Water 2 Α Yes, that's correct. 6 Resources Control Board on the matter of limiting the 3 a 7 licenses of the City of Los Angeles Department of Water and 4 8 Power to divert water from the tributary streams to Mono 5 9 6 Lake. 10 When last we left, Mr. Birmingham, on behalf of Los 7 MR. JOKERST: A Yes, sir. 8 11 Angeles Department of Water and Power, had a few questions, ٥ 12 about ten minutes of time to cross-examine on Fish and Game; 9 13 is that correct? 10 alternatives? 14 MR. BIRMINGHAM: On vegetation. 11 Α 15 MR. DEL PIERO: On vegetation, pardon me. I Q 12 16 indicated at the time I was going to grant you five minutes. 13 One of the prerogatives of being the Hearing Officer is to 17 14 Α change your mind. After having given consideration during 18 15 19 lunch, I will grant you ten minutes, but that's it. 16 CROSS-EXAMINATION 20 17 21 by MR. BIRMINGHAM: 18 22 Q With that in mind, these questions are related, I 19 0 23 believe, to Mr. Jokerst, and I believe they are all 20 that correct? questions that can be answered yes or no, and if you would 21 24 Α answer them yes or no, and then offer a brief explanation, 25 22 23 00113 exist. 1 if you think it is necessary, I would appreciate it. 24 Q 25 2 First, I would like to talk about the riparian Α wetland communities in general. The DEIR states, I believe, 3 at page 3C-49, and I am quoting: Riparian and wetland com-1 0 4 5 munities are recognized by many Stare and Federal resource 2 3 6 agencies, conservation organizations, and independent scientists as having especially high biological values. 4 It says that; is that correct? 7 The DEIR makes that statement; is that correct 5 Yes. 8 MR. JOKERST: Yes, sir, that's correct. And it is 6 Now, isn't it correct that under the 6383.5 foot 9 10 important to point out that the point is that is relative to 7
- 11 other types of habitats.
- Q Certainly, and that is a generally accepted position; 12

- isn't it, that riparian and wetland communities have
- - No, I think it is unsafe to make a strict
- generalization about that. There are notable exceptions to
- that. Habitats can be classified as wetland or riparian and
- not embody the same magnitude of values and functions that
- lead to that more general conclusion.
- Q Well, in terms of the types of riparian wetland
- communities that do have especially high biological values,
- isn't it correct that the tables at the conclusion of
- Chapter 3C indicate that those riparian wetland communities
- are more extensive under the 6377-foot alternative than
- under 6383.5 or 6390-foot alternatives?
 - 00114 I can only speak to my familiarity with the lake
- Is there some other member of the panel that would
- I guess it would be for the riparian communities on
 - MR. CASADAY: It would be me. Is there a standing.
- Yes. We have answered the question with respect to
- lake fringing wetlands, but isn't it correct, for instance,

- MR. CASADAY: A The answer is yes with a
- qualification that the table you are referring to is talking

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- I think you have answered yes to those questions. Now, page 3C-31 of the Draft EIR states that: Today, the Wilson Creek delta wetland supports one of the richest assortment of plant species around the lake. That is stated on page 3C-31; isn't that correct? Isn't it correct that Wilson Creek delta wetland will be inundated under the 6383.5 feet and higher lake I would need to refer back to a map to answer that. Would you please? If you don't know the answer to the question, that is an acceptable answer. It seems to me that that is not the case, that there will still be wetlands on the Wilson Creek delta. They may not reside in the present location. There are some factors which can cause the springs and seeps feeding those wetlands to migrate upslope with the lake level. But the existing wetlands will be inundated; isn't The wetlands where they presently exist will be inundated. The wetlands at Wilson Creek delta will still But as it exists now, it will be inundated? Everything below 6383.5, yes. 00116 The Draft EIR states that: Today, the County Park atland supports the highest diversity of marsh and wet adow species of Mono Lake's lake fringing wetlands.
- alternative and higher alternatives, that that County Park 8 wetland is going to be inundated?
- 9 Α A major portion of it, yes, but not in its entirety.

10 Q Among the environmental effects discussed in the that is necessarily correct. I think there is some 11 DEIR, is the effect that a rising elevation will have on fuzziness here as to when that was written and how much 8 wetlands at the Rush and Lee Vining Creek deltas. 12 9 response had occurred at that time from the grazing 3 The existing wetlands that are formed at those deltas 10 moratorium. will be inundated under the 6383.5 alternative; isn't that 11 Isn't it correct that since the grazing moratorium Q correct? was imposed in 1991 when the grazing was discontinued, and 15 12 16 А Yes, that is correct. 13 here we are referring to livestock grazing, the recovery of 17 I would also like to add that they will relocate with 14 riparian vegetation that occurred has been more than at a 18 the shifting lake level and reform at that new lake level. 15 modest rate? 19 Another one of the environmental effects discussed in Q 16 Well, I can't really answer the question. It is a Α 20 the Draft Environmental Impact Report is the erosive effect 17 definition of modest, | suppose, is the trouble. 21 of high flows, and we established earlier, I think, that is 18 0 The use of the term modest in the Draft Environmental going to be re-analyzed based upon the changing position of 22 19 Impact Report is troubling? 23 the Department of Fish and Game; is that correct? 20 I would say we would definitely agree with you that Α 24 Α I have to direct that to Ken. 21 there has been a response to rewatering that has been very 25 MR. CASADAY: A Erosive effect on high flows; no, I 22 substantial. 23 And there has been a response from the termination of 00117 0 1 don't believe that is correct. I believe -- no, I don't 24 grazing; isn't that correct? 2 believe that is correct. 25 Α We did not actually evaluate that and the reason was 3 My testimony was that we based our analysis of the 00120 4 effects of riparian vegetation and now we are talking about that the RTC's work, which I believe that is a part of, was 1 5 from high flows on data from the Restoration Technical 2 something that we simply could not be assessing while we Committee. Then I reviewed, at either your request or 6 3 were trying to assess the impacts of alternatives. So, 7 someone else's, a letter from the Chairman of the Technical 4 that's just not something that we systematically looked at. 8 -- I'm not sure of the exact title, of Woody Trihey, 5 I believe you should direct that question to the RTC. Chairman of the technical group of the RTC, questioning our 9 6 0 Well, I would like to ask you to look at Figure 5 10 use of his thresholds. 7 from the direct testimony of Robert Beschta, which is in I suggested that we would in the final EIR want to 11 8 evidence, and this is a picture of Lee Vining Creek taken 12 ask for his opinion as to other thresholds that might be 9 from the county road, and I would ask if you have seen this 13 more appropriate. 10 picture before? I did want to add something on my original testimony Didn't we have this picture up earlier in the 14 11 Α on a matter I now find is incorrect. Either now or at some 15 12 hearing? 16 point I would like to clarify that. 13 0 No, I don't believe so. 17 Maybe you could clarify it in a few moments on the α 14 Α Then, I may have not have. 18 State Board's staff time. 15 0 I would ask you to compare the riparian vegetation 19 The Draft Environmental Impact Report states: There 16 that exists in Figure 5 with the riparian vegetation that is **^**0 is an abundant distribution of willow seedlings in the lower 17 depicted in Figure 6 from the testimony of Robert Beschta, reach of Rush Creek. which was taken in August, 1993, according to the caption on 18 12 That's correct. 19 Α the picture. 23 a This abundant distribution of seedlings, when was 20 I will ask you to assume that is correct. Would you that portion of the Draft Environmental Impact Report 24 21 characterize the recovery of the riparian vegetation 25 written? 22 contrasted between Figure 5 and Figure 6 as more than 00118 23 modest? 1 Α I actually couldn't tell you that off the top of my 24 Α In the area covered by the photographs, assuming they 2 head. 25 were taken at the same location, I would agree it should be 3 Q It was written prior to -- let me restate the 00121 4 question -1 characterized as more than modest. 5 Α I would say sometime in the fall of 1992. 2 Q Comparing the two photographs, unfortunately Figure 5 6 0 So, it was written before the effects of the grazing з is a little bit fuzzy, but you can see off to the left there 7 moratorium would have been seen in the basin; is that 4 is a pine tree in approximately the same location. 8 correct, and by grazing moratorium, I am talking about the 5 I would ask that you look at the figures from the 9 1991 grazing moratorium that was imposed. 6 direct testimony of Dr. Beschta, which purports to be Rush 10 Yes. This statement was written after the moratorium Α 7 Creek at the fish hatchery taken in July of 1986. 11 was first imposed. 8 Now, July of 1986, that is about a year after flows Q And the Draft Environmental Impact Report 12 9 were restored permanently to the streams; is that correct? 13 characterizes the recovery as modest; is that correct? 10 I believe that's right. Α 14 I am not sure. You would have to show me the context Δ 11 0 Now, I would ask you to take a look at the same area 15 of that. 12 and I am referring now to Figure 4 from the direct testimony 16 Q I think if you look at 3C-25 of the Draft 13 of Dr. Beschta, and if you compare the background of the two Environmental Impact Report, it says that: In 1985, 17 14 photographs, you can see a similar area. continuous low flows were returned to Rush Creek to maintain 15 I would ask if you would characterize the recovery of 18 19 the trout population. These flows, with an absence of 16 the riparian vegetation that has occurred as depicted by 20 scouring floods, have promoted a modest recovery of riparian 17 these two photographs as being more than modest? A Well, I have a hard time comparing those two 21 vegetation along portions of Rush Creek. Some large 18 22 cottonwoods that were severely stressed, but not dead, have 19 pictures. I see the river channel on the 1986 picture, and recovered much of their vigor. Many thousands of willow and I do not see where it is on the 1993 picture. I can't 23 20 24 cottonwood seedlings have appeared on wetted gravel bars, 21 compare those two. Q Is that because in the 1993 picture the river channel 25 especially near the mouth of the creek. 22 00119 has been obscured by the recovery of riparian vegetation? 23 1 Now, that was written before we saw the effect of the 24 A It may be, but it also may be that the picture is grazing moratorium on the recovery of riparian vegetation; 25 being taken further to the west in the 1993 picture, but I 3 isn't that right? 00122 1 would not question that there has been riparian recovery in 4 MR. JOKERST: A It may be based on data gathered 5 this area. I believe we say that in the Draft Environmental prior to 2 6 MR. CASADAY: A I don't think that I can answer that Impact Report. 3

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4 MR. DEL PIERO: Your ten minutes are up. biologist? Is your predominant experience as a geologist or 5 MR. BIRMINGHAM: With that, I will conclude my 2 biologist? questions and thank you very much. 3 MR. CASADAY: A Geology would be it. 6 7 4 0 MR. DEL PIERO: Mr. Birmingham, Mr. Stubchaer would And you have had extensive planning experience? 5 8 like to see the two previous pictures, the ones with the А That's correct. 6 Q 9 pine trees, and, Jim, if you would hold the pictures up so And Dr. Beedy, your background is primarily avian 7 10 they are side by side. biology? EXAMINATION 8 DR. BEEDY: A That's correct. 11 12 by MR. STUBCHAER: 9 Q Do you have background in migratory waterfowl? 10 13 Q Where were these two taken? Α I have never done research on migratory waterfowl, 14 MR. CASADAY: A These were taken looking downstream 11 but I have had a life-long interest in that and I'm 15 from the county road. 12 certainly very familiar with migratory waterfowl. 16 Were they taken from the same location? 13 0 And you have studied migratory waterfowl in the Q 17 I believe they were. Unfortunately -- if you look at 14 Eastern Sierra in the vicinity of Mono Lake? Α 18 the background -- unfortunately, the 1991 photograph is a 15 Yes. Δ 16 19 little blurred, but if you look at the background the same a And have you studied ducks in particular in the 20 hills appear in the background and we will lay the 17 vicinity of Mono Lake? appropriate foundation to establish that they were taken 21 18 Α Yes, in connection with this Draft Environmental 22 from the same location. 19 Impact Report primarily, that's right. 23 MR. CANADAY: This point, in my opinion, would 20 0 I wanted to ask you some questions about the argument 24 correspond to this point here. The focal point is a little 21 that we have heard this morning that now by refilling Mono 25 different. 22 Lake we are going to be losing a number of specific 00123 23 environmental features or values, so my questions will be 1 MR. DEL PIERO: The points in the immediate 24 generally focused on those particular elements. 2 foreground, what would You gauge the distance differential 25 Before we do that, I would like to ask you, Dr. in the picture is? 00126 3 MR. SMITH: About ten feet, maybe. 1 Beedy, to give us a brief synopsis of the biological state 4 MR. STUBCHAER: The clump of willows at the extreme 5 2 of nature that was out on Mono Lake prior to the diversions, right of the picture, is that the same clump that you see say prior to 1930, focusing specifically on migratory 6 3 more towards the center of the picture in the other photo? 4 waterfowl and their existence. 7 MR. CANADAY: I would say that this is this. 5 DR. BEEDY: A What I know about that subject --8 MR. BIRMINGHAM: I believe, Mr. Stubchaer, you are 6 obviously I never saw the lake in 1930, but in the process 9 of working on the Draft Environmental Impact Report, I did 10 referring to this? 7 MR. STUBCHAER: No, this one, and the one more 8 have occasion to review of lot of historical data, notes 11 towards the center, which would indicate that the right-hand from a series of field ornithologists and local residents, 12 9 picture was taken a little farther downstream than the left-10 and I also personally interviewed a lot of these people, at 13 14 hand picture. Except for that, it's the same reach. 11 least those that are still alive and available to talk to. 15 MR. DEL PIERO: Dr. Beschta is going to be here? 12 The impression I got was of a lake that in the fall, MR. BIRMINGHAM: Yes. that's what you were talking about, the migratory ducks, was 16 13 MR. DEL PIERO: Thank you. 17 14 a place that attracted huge migratory duck. concentrations, Ms. Cahill. estimated by Mr. Dombrowski in 1948 at up to a million 18 15 Mr. Thomas. 19 16 ducks, one count made, and actually, in November of 1948, MR. BIRMINGHAM: May I take a moment, Mr. del Piero, 20 17 he did make six counts. 18 That's the only data set that I know of that was a 21 because the question came up during lunch as to what constitutes a tag team. I had understood that a tag team 19 quantitative estimate of somebody who as a trained observer 22 20 23 referred to and went out and made counts. 24 MR. DEL PIERO: Macho Man and --21 Are you familiar with anecdotal counts? Q 25 MR. BIRMINGHAM: Unlike --22 Α Certainly. There have been many of those that I have 00124 23 also reviewed which corroborate the number and impression of MR. DEL PIERO: Anything less is not a tag team. huge numbers of ducks, and the way that these observers have 1 24 2 MR. BIRMINGHAM: Well, I don't watch, what is it, 25 done that is to say, well, for example, I have been to the 3 Bruce -- Mr. Dodge, world wrestling --00127 4 MR. DODGE: The World Wrestling Federation is the 1 Klamath Basin in the concentration period and the number of 5 better of the two. ducks I saw at Mono Lake were comparable to that and to the 2 MR. DEL PIERO: I will be happy to get together with 6 3 Merced Refuge and Los Banos, or someplace like that. 7 you afterwards and compare notes. 4 0 And what was the habitat that was attracting the MR. STUBCHAER: Mr. del Piero, I think that is a 8 5 ducks at Mono Lake in this historical period? 9 legitimate question. I mean, if one attorney follows 6 Α Well, my understanding is that there were -- in the Draft EIR we reported, I think, over 200 acres of brackish 10 another sequentially, is that a tag team, and if they are 7 separated by a lunch break or a break in the morning, is 8 and freshwater ponds and spring-fed areas that surrounded 11 that not a tag team? 9 the lakeshore in a variety of areas, and some of the most 12 13 MR. DEL PIERO: We will contemplate that during the 10 important areas were such as the mouth of Rush Creek, around 14 balance of the day and make sure we don't break in that 11 Simon Springs, Warm Springs, what I have always called 15 fashion. DeChambeau Marsh, and a lot of these areas that had ponded 12 16 Mr. Thomas. 13 water away from the lakeshore are very attractive to ducks MR. THOMAS: Thank you, Mr. Chairman. 14 because; number one, it gave them a place to bathe and drink 17 18 Harold Thomas with the Department of Fish and Game. 15 and get the saltwater off their feathers. 19 CROSS-EXAMINATION 16 Also, I am told on windy days, which happen a lot at by MR. THOMAS: 17 Mono Lake, it gave them sort of a refuge away from the 20 Members of the panel, I am going to address my 18 lakeshore. 21 0 22 questions to Dr. Beedy, Mr. Casaday and Dr. Jokerst, maybe 19 0 Is it true that the ducks needed these freshwater other subject matters really beyond the scope of the game 20 ponds and wetlands on the shore to be attracted to Mono Lake 23 24 issue, Fish and Game purview. 21 habitat? 25 Mr. Casaday, are you predominantly trained as 22 Α Well, that's certainly the impression I have gotten 00125 23 from the observers at Mono Lake, and also, as I reported in

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24	the Draft Environmental Impact Report, people who have	21 A Yes, I would say so. That is consistent certainly.
25	worked in Canada in saline lakes have reported	22 Q is it true that there were perhaps 20 species of
	00128	23 ducks that would have utilized the historic wetlands and
1	phenomenon that if it is very salty and no source of	24 freshwater areas of Mono Lake?
2	freshwater, the ducks, most puddle ducks are unlikely to use	25 A Not 20 that were common from what I can tell from
3	those kinds of lake situations, that's right.	00131
4	Q Would you conclude that the freshwater wetlands and	1 counts, 20 that would be there certainly, some that were far
5	marshes are critical habitat to the migratory hird	2 more abundant than others such as the northern shoveler, but
6	nonulations that would use Mono Lake?	3 20 ducks that's reasonable. I would have to count them up
7	A Ves and I think also I don't know again I	4 . 0 . Mould these he mainly puddle and diving ducks?
,	probably am going on too long have but the other thing that	F A Ver
0	being an going on too long here, but the other thing that	5 A fes.
3	I have read recently I made reference to in my opening	6 Q And is it true that the freshwater areas, the springs
10	remarks, was Dr. Stine's analysis of the hypopycnal layering	7 and these hypopycnal areas described by Dr. Stine are
11	and it's something I have seen myself at the mouth of Rush	8 important to the habitat used by these various ducks?
12	Creek, this freshwater floating on top of the saltwater.	9 A Yes, I think so.
13	Apparently that, in conjunction with a lot of the	10 Q Would you rate their habitat as more important than
14	micro, little embayments around the lake did create	11 alkali flats?
15	additional habitats that were actually part of the lake, but	12 A Yes, I think I see what you are driving at here, you
16	had freshwater on top of them, so I wasn't aware of that	13 know -
17	but in looking at Dr. Stine's man, it did correlate quite	14 0 1'm instacking for a comparison?
10	well with Mr. Dembrowski's man from the 1040/s	14 G Thijdst asking for a companson:
10	well with wir. Dombrowski's map from the 1940's.	15 A Yes, I Would say so.
. 19	Q And again, we are talking about the historical	16 MK. BIRMINGHAM: May I ask for instruction that we
20	prediversion sort of state of nature condition on Mono Lake?	17 not have counsel and the witness talking at the same time
21	A That's right.	18 because I'm not sure that the court reporter is able to
22	Q And a number of those wetlands are not there today?	19 transcribe two speaking at the same time.
23	A Well, the only wetlands I know of that would be	20 A I'm sorry. Your question was, are ponds more
24	categorized that way at this point, as far as having any	21 important to wildlife than alkali flats
25	open water, there is a little spot down there called Gull	22 MP THOMAS: Lwill renkrase my question
20	open water, there is a intre spot down there called dui	22 WR. movings. Twin reprivate my question.
		23 Q Were the wettand areas, treshwater wettands on the
1	Bath hear the mouth of Wilson Creek which does have some	24 lagoons important to migratory wildlife in the Mono Basin?
2	tresh-standing water. There's a few small canals and such.	25 A Yes.
3	Q Let me give you some other information. You	00132
4	testified that you are only familiar with one trained	1 Q And was that habitat type more important than alkali
5	observer. Is that Mr. Dombrowski?	2 flats to the migratory waterfowl using the Mono Basin in the
6	A One person who is a professional observer, yes,	3 historic period?
7	professionally trained biologist, who worked for the	4 A Yes, I could go on about that, but for one thing, it
8	Department of Fish and Game	5 wasn't alkali flats prehistoric but given what the use is
ĩ	$\Delta = \Delta re you familier with the conder article from 1902 by$	6 now that's right. That would be a true statement
,	Are you laminar with the condor afficie from 1902 by	7 O And your acting success for wildlife belief welves
.0		7 Q And your rating system for wildlife nabitat values
11	A res, I am.	8 rates alkali flats as a .01, which would be a trace value?
12	Q Do you consider that a credible source of pre-	9 A Yes- that's correct. That's based on the species
13	existing historical conditions at Mono Lake?	10 richness as a relative index, and it means
14	A He made some mistakes on bird identifications and a	11 Q I will ask you some questions about that in a second.
15	few things, but generally, it's a great article in a	12 I would understand you would agree with the
16	iournal.	13 Dombrowski data that was presented in the MLC 176 exhibit:
17	Q. If I were to read a text from Mr. Fisher's	14 that is, the map of the Dombrowski findings?
18	description, could you verify its accuracy and consistency	15 A Ves I discussed that data with people who knew
10	with your testimony in the Environmental Impact Penert?	16 Dembrowski and convinced mycelf he was very careful in
20		17 manual and convinced myself he was very careful in
20	A Okay.	17 mapping property.
21	Q (quoting) We camped about 15 miles east of	18 Q. And the wetland areas he identified on that map are
22	Farrington near a deserted ranch where a plentiful seepage	19 consistent with the historic wetlands that your research has
23	of freshwater makes a few muddy little meadows grown up with	20 uncovered?
24	wiry grass and is filled with little pools of water.	21 A Yes.
25	Between these meadows and the lake is a terribly wide damp-	22 Q And consistent with evidence, field evidence, that
	00130	23 your team has uncovered or observed?
1	like sand beach behind which are longish ponds of brackish	24 A Primarily from discussions with historic references.
2	water	25 0 I want to ask you about this babitat evaluation model
2	le that description consistent with your information	
3	is that description consistent with your mormation	
4	about historical conditions?	1 and I ask you for the reason of evaluating a conclusion
· 5	A Yes, it is. I am trying to remember where Farrington	2 provided in Mr. Casaday's direct testimony when he first
6	was. Is that on the north side of the lake?	3 laid his foundation.
7	Q I think Farrington is somewhere near the County Park.	4 Are you aware that Mr. Casaday has testified that the
8	A It would be consistent, but the main ponds I'm aware	5 acreage of existing vegetative wetlands that have developed
9	of that were brackish were the sulphur ponds out near the	6 in the relicted land would be significantly reduced under
10	northeast shoreline there, but certainly that would be	7 higher lake level alternatives, particularly under the 6410
11	consistent with what I have read	8 taka laval?
11	O Mr. Eichar also and in his anti-to an work A state	
12	u ivir. Fisher also said in his article on page 9, when	A Are you asking me this question?
13	dusk came on the ducks and grebes, they came nearer to land	10 Q Yes, are you aware that this is his testimony?
14	to feed and small flocks of the former flew up and down the	11 A I am sorry, could you repeat the question?
15	shore until long after dark.	12 Q Are you aware that Mr. Casaday has testified in his
3	Is that behavior consistent with duck migratory	13 direct testimony that the acreage of existing vegetative
. 7	waterfowl?	14 wetlands that have developed since the lands have relicted
10		
1 🛪	A Making pight flights or dusk flights?	15 in the lake basin would be significantly reduced under the
10	A Making night flights or dusk flights?	15 in the lake basin would be significantly reduced under the
18	 A Making night flights or dusk flights? Q Dusk flights, small flocks of the former flying up and down the obera until long ofter dark 	15 in the lake basin would be significantly reduced under the 16 6383.5 and higher lake level alternatives, particularly 17 under 64102

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18	A Am I aware Mr. Casaday testified to that? I wasn't	15	Q Wild
19	here for his testimony, so I guess I wasn't aware he had	1 16	than an i
20	done that.	17	A That
21	Q Could I familiarize you with this testimony?	18	Q So.
22	A Okay. (After reviewing the testimony) I think Mr	19	valuable.
23	Jokerst could probably answer this question better than Las	20	A Base
24	far as the amount that was inundated at specific elevations	21	richness
25	Ω I want to ask you about wildlife is it true that	22	measure
20		23	most of
1	the wildlife - the encage of watland behitet has value to	20	that wou
2	ducks and other microtory waterfoul?	24	
2	A The existing wetland habitat?	20	u Ana
3	A The existing wetland habitate that would be invested		A Th
4	C The existing wetland habitats that would be inundated		A Inat
5	IT The lake was to be faised to 6410?	2	U Inat
6	A I did find ducks in some of the narrow channels,	3	A Inat
7	brackish water around Simon Spring, very few ducks in any of	4	Q Now
8	those habitats relative to the extent of the habitat right	5	acres
9	now.	6	A Yes.
10	Q In fact, haven't you testified that most of the	7	Q. Isqu
11	habitats along the lakeshore are of very low wildlife value?	8	MR. B
12	A They support very few species under current	9	question
13	conditions.	10	(The
14	Q Particularly when you focus on ducks, aren't those	11	and a
15	habitats of very low wildlife value? I can go through them	12	Q So,
16	individually.	13	terrib
17	A Yes, as far as ducks are concerned now that	14	A Bas
18	analysis you note there that I didn't include the ponds	15	speci
19	and Jagoons.	16	abund
20	O I will get to that I would like to go through these	17	diffici
21	and for the Board members I have conjes of exhibit. Table D	18	eneci
22	- five of the FIR I wanted to go quickly through these	1 1 9	that
22	habitate in study area 2 which would be this paragraph area	1 20	MP
20	and ask shout some particular behitete as they apply to	20	and alkal
24	and ask about some particular habitats as they apply to		
25	ducks.		value to
		23	Do yo
1	MR. BIRMINGHAM: What table are you reterring to?	24	to water
2	MR. THUMAS: Table D-5, Appendix D.	25	A Yes.
3	Q is it true that the 6,000 acres approximately, 5900	1	
4	acres of alkali flats has any value to ducks, the duck	1	too much
5	category, migratory waterfowl?	2	Q In fac
6	A You are just asking about alkali flats, period?	3	A I thin
7	Q Which is at the bottom of your study area 2, which is	4	habitats.
8	rated .01.	5	Q is the
9	A Yes, that's true. The only time I have ever seen	6	particular
10	ducks on the alkali flats is if they happen to be right next	7	A Well,
11	to the lakeshore and there are ducks that will use it in	8	Q Just
12	that condition.	9	on this lis
13	Q is alkali flat classified as a wetland?	10	migratory
14	A Mr. Jokerst would have to answer that question.	11	A Agai
15	MB JOKERST: A Portions of it will meet Fish and	1 12	0 Well
16	Wildlife Service's definition of wetlands	1 13	A Give
17	0 And the alkali meadow Dr. Beedy is the alkali	14	0 Wha
10	meadow valuable to the duck family of migratory waterfow?	15	
10	DR REEDV: A We saw yory few ducks there 1 think	16	Can have
20	Logw one flock of concernen teal in a little wat area that	1 17	freebuce
20	i saw one nock of cinnamon teal in a little wet area that		rresnwau
21	had some standing water at warm Springs, but relatively rew	18	see many
22	ducks in that aikali meadow.	19	MR. L
23	Alkali meadows we defined as saltgrass; didn't we,	20	MR. 1
24	Jim?	21	number o
25	MR. JOKERST: Several different phases, that was one	22	today. I
	00136	23	dwindling
1	of them.	24	MR. [
2	DR. BEEDY: A Saltgrass would have very low use, at	25	MR. 1
3	least under current conditions.	I	
4	Q And you have testified in the EIR they have low	1	ponds and
5	wildlife value in general?	2	A Okav
6	A Yes well, relative to other habitats, that's	3	Q There
7	right.	4	this chart
8	Q And, in fact, you rated the alkali meadow as a 12?	5	A You s
9	A That's correct.	Ā	Q And t
10	0 And in fact didn't you rate irrigated meadow as the	Ĭž	and ladeo
11	came wildlife habitat value 122	ļć	
10	A Vec I reted it based on what I saw It wasn't co		find ever
12	A ros, ridiou it pased on what i saw. It wash t so		
	much the rating, it was based on our field notes of what we	1 10	niver to I

14 recorded there.

- llife value of anything under .12 would be less
- irrigated meadow?
- 's correct.
- guess we could conclude that is not terribly
- wildlife, .12?
- ed on the measure I used, which was species
- I didn't incorporate relative abundance in this
- because it was too difficult to measure, but for
- these species; yes, based on species richness alone,
- Ild be a true statement.
- species richness is the basis of your rating?
- 's the basis of our rating system.
- - 's the only system we have got to go on? 's correct.
- the value of dry meadow, of which we have 2,397
- ite low as well; am I correct?
- RMINGHAM: Would you read back to me the last and answer, please?
- reporter read back the previous question
- inswer as follows:
- I guess we could conclude that is not
- ly valuable wildlife, .12?
- sed on the measure I used, which was
- es richness, I didn't incorporate relative
- dance in this measure because it was too
- ult to measure, but for most of these
- es; yes, based on species richness alone.
- would be a true statement.
- THOMAS: A Now, we have gone over alkali flat
- i meadows. Now I'm asking about dry meadow, its
- migratory waterfowl.
- ou believe there is a significant value provided
- fowl?
- In the absence of a source of freshwater, not 00138

- ot, that would be why you rated it so low?
- k I would say the same thing about all of these
- - ere any habitat on this list that you would find
 - ly valuable to migratory waterfowl?
 - some that I expected to be --
 - on this list, not what you expected. Anything
- t that you find particularly valuable to
- / waterfowl?
 - n, it all depends on the context of it.
 - , given our context.
 - n the context of the east side of Mono Lake?
 - tever context of the areas that ducks would use?
 - I mean, like emergent marshes, emergent marshes
 - high value but unless, again, they have some
- er nearby, we∝rank them pretty low because we didn't
- ducks when we were out there, in fact, very few. DEL PIERO: Time.
- THOMAS: Okay. An additional 20 minutes for a
- of good causes that I articulated a little earlier
- would try to be more on point as time is
- DEL PIERO: Twenty minutes.
 - THOMAS: Q Could we then address the issue of 00139
 - d lagoons?
- is no wildlife rating for pond and lagoon on
- Am I correct?
- are correct.
- the reason is you indicated there were no ponds
 - ns to measure; is that a correct understanding?
- There was nothing relative to habitat I could
- ples of either within the Mono Basin or at Owens
- 10 River to illustrate these types of habitats, and for the
- 11 ponds and lagoons, I could not find the samples of those in

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12	the current conditions.	9 valuable habitats and assume hypothetically I know you
13	Q And you didn't go to the professional literature and	10 may not agree, that .75 is the proper rating for the value
1 /	make an ensumption about the value of manda and langers for	11 of and and long at Mana Lake given the appreciate
14	make an assumption about the value of ponds and lagoons for	If of ponds and lagoons at work Lake given the scarcity of
15	wildlife habitat?	12 wetland habitat, freshwater wetland habitat.
10	A No I didn't do that I abaga a powerting an areach	12 If I wan 75 wains the 260 serves would that shares
:0	A No, I dian t do that. I chose a harrative approach	13 If I fan .75 using the 260 acres, would that change
17	and I chose it because the only information I had was the	14 your conclusion that inundation of the lake at 6410 would
10	use of these means by ducks, on Labora to address that with	15 destroy 605 wildlife write?
10	use of those areas by ducks, so I chose to address that with	15 destroy 605 wildlife units?
19	a parrative approach rather than trying to use a different	16 A if you used the WHI value of .75 and ran those
20	approach for ponds and lagoons, and all other habitat.	17 numbers, it would certainly change the final VVHU.
21	thought it was more valid to acknowledge I didn't have that	18. O Let me just do that hypothetically
	thought it was more value to acknowledge i dun t have that	to a Let me just do that hypothetically.
22	kind of information.	19 A It is a hypothetical calculation.
22	O lon't it true there was a helf care wetland nand	20. O Lunderstand that let's and what we get At 75
20	a isn't it the there was a half-acre wetland pond	20 Q Funderstand that. Let's see what we get. At .75 we
24	existing at the mouth of Wilson Creek that you could have	21 would have 195 upits. Over here we would have minus 195
05		
25	measured?	22 and then let's assume that we take out all of these areas
	00140	23 that you have agreed are not of value to waterfowl to duck
_		
1	A Yes. I went down there. I didn't see at the time I	24 waterfowl, and isn't it true that our analysis will now
2	was there and the times I have been there actually are quite	25 result in a negative 982 when we are considering ducks?
-	the the and the arrest have been there detailly are quite	Lo robait in a hogative locz when we are benefacing duckar
3	a few times	00143
4	O But your methodology included plotless surveys	
	a but your methodology mended plottess surveys	
5	A Isurveyed that	2 Q We took 18.3, 1.6, 5.8, 73.4, 2.4, these are not
6	MR DEL PIERO: Again ask the quastion and the	3 valuable to ducke we aliminated them and then we rep. 75
-	man been brief any any any decision and try,	
7	please, to answer it as succinctly as possible.	4 which is 195 wildlife units, and we ended up with a loss of
0	A Okay Landogize Vac	5 92 wildlife
ð	- ukay, i apuluyize. 108.	5 52 Wilding,
9	MR. THOMAS: Q Can you restate your answer? Did you	6 Is that a fair mathematical computation?
	attempt to many the call difference	7 A Deced on the 75 but removes the
10	attempt to measure the wildlife habitat?	/ A based on the ./b, but you realize also
11	A Lattempted to measure Wilson Creek pond but it.	8 Ω That's hypothetical.
12	wash t a large enough area to generalize about species	J 9 A Yes. This number also included reptiles, amphibians,
1 2	richness in nonds and lacoons around the lakeshore	10 mammals and other wildlife species in addition to ducke as
15	nonnese in ponde and agoone around the lakeshore.	To manifilia and other wilding species in addition to ducks, so
14	• Q Am I correct that there were other lagoons around	11 I still suspect that .75 would he an overestimate given the
15	Mone Lake that you could have measured?	12 fast that asttonwood willow woodland is only 29 and it has
15	Mono Lake that you could have measured?	1 12 Tact that cottonwood-white woodiand is only .36 and it has
16	A l'm sorry.	13 a lot of structure, probably has more species, not as many
47	A mail assess that there were other language of	14 individuals that is served but if you want to you that
17	a Am i correct that there were other lagoons of	14 Individuals, that is correct, but if you want to use that
18	freshwater that are now existing around Mono Lake?	15 number that would be a correct calculation.
10	A Mall there is some like at DeChambery needs which	16 O And if we did we that number 10/hat the enducin
19	A vveil, there is some, like at DeChambeau ponds, which	To Q And II we did use that number, what the analysis
20	are artificially created, but most of the ponds and lagoons	17 would tell us, filling the lake to 6410 would give us a
21	that once existed are now dry.	18 benefit of 92 wildlife units when considering ducks and
22	Q But there are some you could have measured?	19 migratory waterfowl?
3	A Aside from Wilson Creek, I can't think of any others	20 A res, using those numbers.
	f a suid haras a state a suid d'at faire	
:4	I COUID have dotten dood data trom.	I ZI U Ano Isna Isna Isna Isna Isna Isna Isna Isna
_4	Could have gotten good data from.	22 Lu And Isn't this entire numerical rating scheme skewed
_4 25	Q Could you have gone down to Crowley Lake and measured	22 by the omission of the largest single factor of value in the
_4 25	Q Could you have gone down to Crowley Lake and measured 00141	22 by the omission of the largest single factor of value in the 23 wildlife habitat world?
_4 25	Q Could you have gone down to Crowley Lake and measured 00141	21 C And isn't this entre numerical rating scheme skewed 22 by the omission of the largest single factor of value in the 23 wildlife habitat world?
_4 25 1	Q Could you have gone down to Crowley Lake and measured 00141 the plotless test at Crowley Lake looking at waterfowl?	 21 CL And isn't this entire numerical rating scheme skewed 22 by the omission of the largest single factor of value in the 23 wildlife habitat world? 24 A It's skewed by a factor, but again, I don't know how
_4 25 1 2	Could you have gotten good data from. Q Could you have gone down to Crowley Lake and measured 00141 the plotless test at Crowley Lake looking at waterfowl? A I talked to Mr. Tillemans to some extent and found he	 21 G And isn't this entre numerical rating scheme skewed 22 by the omission of the largest single factor of value in the 23 wildlife habitat world? 24 A It's skewed by a factor, but again, I don't know how 25 big that factor is, and I don't know if it is fair to
_4 25 1 2	Q Could you have gone down to Crowley Lake and measured 00141 the plotless test at Crowley Lake looking at waterfowl? A I talked to Mr. Tillemans to some extent and found he	 21 CL And isn't this entre numerical rating scheme skewed 22 by the omission of the largest single factor of value in the 23 wildlife habitat world? 24 A It's skewed by a factor, but again, I don't know how 25 big that factor is, and I don't know if it is fair to
_4 25 1 2 3	Q Could you have gone down to Crowley Lake and measured 00141 the plotless test at Crowley Lake looking at waterfowl? A I talked to Mr. Tillemans to some extent and found he had seen high numbers of waterfowl at Crowley Lake	21 C And isn't this entire numerical rating scheme skewed 22 by the omission of the largest single factor of value in the 23 wildlife habitat world? 24 A It's skewed by a factor, but again, I don't know how 25 big that factor is, and I don't know if it is fair to
_4 25 1 2 3 4	Q Could you have gotten good data from. Q Could you have gone down to Crowley Lake and measured 00141 the plotless test at Crowley Lake looking at waterfowl? A I talked to Mr. Tillemans to some extent and found he had seen high numbers of waterfowl at Crowley Lake Reservoir. I did go down there, but I didn't do a plotless	 21 CL And isn't this entire numerical rating scheme skewed 22 by the omission of the largest single factor of value in the 23 wildlife habitat world? 24 A It's skewed by a factor, but again, I don't know how 25 big that factor is, and I don't know if it is fair to
_4 25 1 2 3 4	Q Could you have gone down to Crowley Lake and measured 00141 the plotless test at Crowley Lake looking at waterfowl? A I talked to Mr. Tillemans to some extent and found he had seen high numbers of waterfowl at Crowley Lake Reservoir. I did go down there, but I didn't do a plotless	 21 CL And isn't this entre numerical rating scheme skewed 22 by the omission of the largest single factor of value in the 23 wildlife habitat world? 24 A It's skewed by a factor, but again, I don't know how 25 big that factor is, and I don't know if it is fair to 00144 1 compare species for which, again, the total numbers using 2 the factor sectors the state and indicates of the
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6	observed by the Department of Fish and Game, would you be	3	A No, sir, that is incorrect. They will not be
7	surprised as an expert in migratory waterfowl?	4	freshwater.
8	A No, I would not be surprised by that.	5	Q Freshwater and brackish?
9	MR, DODGE: Mr. Chairman, might we have a definition	6	A They will be brackish. They might vary in
10	of tag team? Me Goldsmith did the hird issues and I would	7	brackishness but they would not be freshwater lacoons
11	on tag teath ins. Boldshitti ald the bird issues and i would		O But we would need to not to 6400 in order to get
11	assume there were objections to Mis, Goldsmith		Dut we would need to get to 6400 in order to get
12	MR. BIRMINGHAM: Mr. del Piero, I will assume	9	these brackish lagoons?
13	responsibility for cross-examining the remaining panels,	10	A I am not sure which lagoons you are talking about.
14	including recross on this panel, so there won't be any more	111	If you are talking about the lagoons on the North Mono shore
15	time	12	lands Lagree with that statement. It also can apply
10	MD DEL DIEDO: Eine I stale net en with it	1 1 2	there are other land at statement. It doe but upply
10	WR. DEL PIERO: Fine. Let's get on with it.	1 13	there are other lagoons at other locations on the lake.
17	MR. THOMAS: Q. I have one more line of questioning.	14	Q I would ask you specifically about the lagoons at
18	I am going to ask you about this statement in the direct	15	Rush, Lee Vining, Mill and DeChambeau ponds?
19	testimony that Mono Lake as it refills will provide	16	A Rush and Lee Vining Creek deltas may indeed reform
20	additional duck habitat up to 6390	17	largeone at lake level shove 6400 feet. We note in the EIP
20	Be were approximately up to 0000.	1 16	that is a large the line second that is
21	Do you remember that portion of the direct testimony	10.	that is a long-term nearing process, that it would not be an
22	of Mr. Casaday?	19	instantaneous event.
23	A I didn't hear Mr. Casaday's direct testimony. I did	20	Q But we do need to get to 6400?
24	read it, but I don't have it.	21	A Yes.
25	O Again I will hand you nage 13 of Mr. Casaday's	22	0 And the same question for Lee Vining?
4.0		1 55	
	00146	23	A That's correct.
1	direct, and it you could read that paragraph outlined in	24	Q The same response.
2	red, I will quickly provide an illustrative diagram?	25	A Yes, sir.
3	A Okay.	1	00149
4	MR. BIRMINGHAM: Mr. del Piero, may we ask this he	1	0 We need to get to 6400
5	marked as DEC exhibit for numeroos of the record?		$\Delta \text{We need to get to 6400}$
0	marked as DFG exhibit for purposes of the record?		
6	MK. DEL PIEKO: Department of Fish and Game?	3	u And for Mill Creek, in the vicinity of the mouth of
7	MR. THOMAS: I don't intend to offer it as a piece of	4	Mill Creek?
8	evidence. I think Dr. Stine will put it in at some point.	5	A I am not aware there were historic lagoons on the
9	hut I wanted to ask the witness	6	Mill Creek delta
10	MR DEL DIEDO. Defere you continue in record to the	Ĭž	And DeChembery wetlends, these lageons were formed
. 10	WIN. DEL FIERO: Before you continue, in regard to the		And Dechambeau wettands, those lagoons were formed
11	chart that you just had, just so we keep this clear, the	N N	between lakeshore elevations 6400 and 6412?
12	chart that you used I'm not talking about	9	A Above that elevation we would go under water, as I
13	MR. THOMAS: Right, D-5.	10	understand.
14	MR. DEL PIERO: I think in order to make sure we have	11	Ω And isn't it true that Auxiliary Report 21
15	a complete record including calculations that's going to	12	recommended 6405 to rewater the north shore lagoons?
10	a complete record, moldaring calculations, that's going to	14	
16	need to be marked.	13	A I'm not familiar with that auxiliary report per se
17	MR. THOMAS: We will so mark it next in order.	14	unless it is the one I wrote. I forget the number of my
18	MR. DEL PIERO: In terms of this, where are you	15	report.
19	proposing to go?	16	Q I have the same feeling in this proceeding that there
20	MP THOMAS, I am going to oak the events three or	17	is a lat of date?
20	win. Thomas, Tain going to ask the experts three of		
21	tour questions related to this draft and conclude.	18	A A lot of data and a lot of numbers.
22	MR. DEL PIERO: Do you intend to introduce this?	19	MR. FRINK: For the record, the auxiliary report
23	MR. THOMAS: No, I don't intend to introduce it.	20	never mind, I am not going to be able to clarify this as I
24	MR. DEL PIERO: This is for illustrative purposes?	21	thought.
25	MR_THOMAS: In light of the fact some of us need	22	MR DEL PIERO: Thank you Mr Frink
20		1 22	Mr. Themas, let me point out Mr. Stubehear takes care
_			With Thomas, let the point out With Stubender takes care
1	pictures, I thought it would be helpful to digress from	24	of the clock and you don't lose time in these comments.
2	words.	25	MR. THOMAS: Q One more question of Dr. Beedy. We
3	MR. DEL PIERO: Why don't you proceed.	1_	00150
4	MR. THOMAS: The testimony on direct by Mr. Casaday	1 1	heard some testimony earlier about these predatory gulls
5	is that habitat, duck habitat, freshwater and brackish	1 2	that eat their young and apparently ployers and tern
ē	leases habitate will increase as we rise from a 6000 level.	15	Do you believe that the henefits of the siging lake
	agoon nautate will increase as we rise from a 0383 level;		by you believe that the beliefts of the fising lake
7	is that correct?	4	level to guils will offset the apparent loss of habitat to
8	A Yes, that's right.	5	gulls that was discussed earlier?
9	Q And isn't it true that as we go from lower levels to	6	MR. DODGE: Objection.
10	6390 that in order to refill these langons which evicted	7	MB_DEL_PIERO: Do you want to rephrase that
11	hebind the cond horme, that we are going to have to get a	6	with BEET Ends. Bo you want to replicate and
11	bennu the same berns, that we are going to have to get a		
12	lake level of 6400?	9	MR. THUMAS: U. Did you near some earlier testimony
13	MR. CASADAY: A Mr. Chairman, the work in this area	10	that the rising lake level would result in the loss of
14	on our team was done by Mr. Jokerst rather than Dr. Beedy.	11	habitat for gulls at Paoha Island?
15	He might be a better person to answer these questions.	12	A Yes, I did.
16	MR DEL PLERO. Mr. lokeret why don't You go ahead	12	0 Do you believe that the benefits of a rising lake
177	and answer the question	114	level to gulle in general will offect the loss of that
17			
18	MK. JUKEKST: Could you ask it again?	15	nesting habitat?
19	Q Dr. Jokerst, are you familiar with the testimony of	16	A Yes, it would. As long as Negit Island is an island,
20	Mr. Casaday that freshwater and brackish lacoons will	17	then space is no longer limiting for gulls, and I think that
21	increase in number and acreage as we move from the 6383	18	benefit would be offset. There's a lot more habitat and a
22	alternative unwarde?	110	lot more kinds of babitet
22			
23	WIN. JUKENSI: A Yes.	20	ivin. Indivinas: Inank you. I have no further questions,
24	$\mathbf{Q}_{\mathcal{A}_{\mathcal{A}}}$ And am I correct in understanding that the text of	21	Mr. Chairman.
25	Auxiliary Report 21 indicates that we will get no freshwater	22	MR. DEL PIERO: Thank you very much.
	00148	23	Mr. Dodge.
1	lancon and marsh habitat until we get to 6400 until we get	24	CROSS-EXAMINATION
4	shows the historia and harma?	27	by MR. DODGE:
~	above the historic sand berns?	1 40	

Tote-Scripts by MORRISON & FOERSTER (213) 892-5200

Page 26

1 Q Which one of you answered questions about riparian
2 vegetation on tributary streams at 6377?
3 MR CASADAY: A Mall I must have
O Milers in the formation of the second seco
a U where it was pointed out that riparian vegetation at
5 6377 was slightly higher than it was at 6383.5?
6 A Yes, right.
7 Q Would you agree with me that that assumes that the
8 channel is now dry in lower Rush Creek are not rewatered?
9 A No let's see - well' the question is a projection
3 A No, let's see - werk, the question is a projection
10 into the future and our analysis of groundwater conditions
11 associated with the different alternatives was that the
12 potential riparian habitat under the 6377 alternative would
13 be the highest of the alternatives.
14 Whether or not all of that notential would be
15 realized would be dependent upon watering of everflow
15 realized would be dependent upon watering of overnow
16 channels perhaps and other similar actions.
17 Q So, your analysis also included the now dry channels
18 in lower Rush Creek?
19 A That's right.
20 0 And was your analysis dependent on your conclusions
21 about the erosion of ringrian vagatation that gross from
21 about the erosion of hpanian vegetation that arose from
22 nign steamhows?
23 A No, the estimate of potential riparian vegetation
24 under the alternatives was based on the extent of shallow
25 groundwater that we predicted through a modeling approach.
00152
1 We did not try to quantify the effect of stream bank
3 Q. Now, in terms of the recovery of riparian vegetation
4 on the streams, I wasn't sure Mr. Jokerst, did you work
5 on that, on the stream vegetation?
6 MR. JOKERST: A Just on the unner Owens River sir
7 O But not on the tributery streams?
8 A NO, SIF.
9 Q That was done by Mr. Casaday; is that correct?
10 MR. CASADAY: A Myself and some botanist working
1 with me other than Mr. Jokerst.
12 0 Was that Tim Messick?
12 A Principally yes
13 A Frincipality, yes.
14 Q And I notice on Table S-2, page 1 are you with me?
15 A Yes.
16 Q S-2, page 1, that as a mitigation measure you
17 recommend planting woody riparian vegetation where absent
18 along the tributary streams.
18 along the tributary streams.
 18 along the tributary streams. 19 Do you see that, sir? 20 A You do not that
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- personally would be, I guess, five or six Who were people 23
- who lived during either the great diversion or the little 24
- diversion years ago around Mono Lake that I spoke with. 25 00154
 - I read testimony from quite a few others.
- 2 Q In terms of the number of waterfowl observed in the 3 fall migration, was their anecdotal evidence reasonably
- 4 consistent? 5
- A Yes, that is one of the things that I looked for when 6
- I evaluated the notes and interviews with these different 7 people was, were they consistent, were there internal
- 8 consistencies or obvious contradictions, and what I found
- 9 was that the general trend was that everybody who had been
- 10 there or was in a position to think about it, or know about
- 11 it, reported pretty much the same thing.
- 12 Q Now, you referred to information relating to the
- 13 hypopycnal layering. Do you recall that testimony?
- 14 Α Yes. I do.

- Can you tell the Board what a typical hypopycnal 15 Q
- 16 layer is and how it relates to ducks?
- 17 A I am certainly no expert in it. I did read Dr. Stine's
- 18 report and my understanding of hypopycnal layer is a layer
- 19 of freshwater floating on the surface, usually quite
- 20 localized around the shoreline or some distance out into the
- 21 lake, and the saltwater is heavier than the freshwater, so
- 22 it sinks, or alternately, the freshwater is lighter so it
- 23 floats on the surface and it functions in much the same way
- 24 that the freshwater pond would, except it was out in the 25
 - lake, which provides the bird a source of water that they 00155
- can drink and bathe in, and get the salty water off their 2 feathers.
- 3 So, its importance to them for the access to
- 4 freshwater appears to be a general need of migratory puddle
- 5 ducks, among the experts I have spoken to.
- 6 Q So, you would say a hypopycnal layer means a layer on 7 Mono Lake?
- 8 A Or any other lake, as a freshwater layer floating on
- 9 a saline layer, is my understanding of it.
- 10 Q Now, I think when you were responding to questions by
- 11 Mr. Frink, you indicated that this was new information, but
- 12 it didn't substantially change your conclusions. I tried to
- 13 write that testimony down. I am not sure I got it all, but
- 14 let me ask you, this hypopycnal layer described by Dr.
- 15 Stine, as I understand your testimony, it would provide an
- 16 additional duck habitat; is that correct?
- 17 Yes, it would. That's my understanding of it.
- 0 18 Are you able to quantify that in any respect?
- 19 Α Dr. Stine's report is the only attempt I have seen to
- 20 do that. I personally am not in a position to quantify it, 21
 - no.
- 22 Q Let me ask you to turn to the present and ask you how
- much of the prediversion duck habitat that's described in
- 24 the DEIR as supplemented by what you told us today about the
- 25 hypopycnal layer, how much of that habitat exists today? 00156
- In terms of the ponded layer, I think there's about 1
- half an acre at the mouth of Rush Creek -- excuse me, Wilson 2
- 3 Creek, compared to several hundred acres, at least 260 acres
- 4 if you add the 133 acres of freshwater habitat, it would be 5 a small fraction.
- 6 I haven't actually calculated it out. I could if you
- 7 are interested in having me do that.
- 8 As far as the hypopycnal layer, I do know that out at 9 the mouth of Rush Creek you can go out in a boat and see the
- 10 freshwater floating on the surface since they have been
- 11 releasing water down Rush Creek, so there is some of that
- 12 habitat there, but my impression is that much of this
- 13 hypopycnal layer was done by springs around the lakeshore
- 14 which are no longer flowing.
- 15 It would be, again, a small fraction of the
- 16 prediversion extent of that habitat.
- 17 Q Let me turn to the California gull. Now, do you
- 18 recall questions to the effect that approximately 28 percent
- 19 of the California gull nests are on Paoha Islands?

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- 20 Α Yes, I do.
- Now, these Paoha Islands are shown on Figure 1-2 that 21 0
- 22 are right in here?
- 23 Α That's correct.
- 24 For how long have gulls been nesting on the Paoha 21 0 25 Islands? 22 00157 23 1 My understanding is the gulls first made it to the 24 Α 2 Pacha Islands in 1979, approximately coincident when Negit 25 Island was first accessible to mainland predators, and then 3 4 they moved over to the Paoha islets, some of them. 1 5 So, they moved over there recently as a result of 2 0 3 6 receding lake levels; correct? А Presumably. 7 4 Α Now, do you remember Ms. Goldsmith asking you whether 5 8 0 9 this habitat would be basically inundated at 6383.5 6 7 10 elevation? 11 Α Yes, I do. 8 Now, let me ask you whether the Paoha Islands habitat 9 12 Ω 13 for California gulls would also be inundated at the proposed 10 **DWP Management Plan?** 11 14 15 MR. BIRMINGHAM: Objection, lacks foundation. 12 MR. DODGE: Q Have you looked at Mr. Hasencamp's 16 13 17 testimony? 14 15 18 I've not looked at Mr. Hasencamp's testimony. Α 19 0 Let me ask you to look at Section 2, page 42, which I 16 level. 20 will represent to you, and I want you to assume this is the 17 21 18 projected lake elevations over the years under the DWP 22 Management Plan. 19 23 Α You are looking at Figure 3 in Mr. Hasencamp's 20 24 21 testimony? 0 25 ۵ Yes. Now this says maximum lake elevation 6383.5 22 23 00158 Α 1 feet. Now, let me ask you to assume under the DWP proposed 24 Management Plan the maximum elevation of Mono Lake is 2 25 3 6383.5. I ask you to assume that. What effect would that lake level have on the Paoha 1 4 5 islets gull nesting colony? 2 6 At that elevation, it is my understanding that with 3 7 the erosive forces that are likely to occur, Paoha islets 4 8 would be inundated and substantially eroded and probably 5 wouldn't provide much habitat for nesting gulls at the 9 6 7 10 highest elevation there. Q Now, if the nesting on the Paoha islets were no 8 11 9 12 longer possible as a result of some decision by this Board pursuant to whoever's management plan, if the Paoha islets 13 10 14 became unavailable due to high Mono Lake levels, I take it 11 15 from your answer to Mr. Thomas, that you believe that Negit 12 16 Island shown here would provide sufficient habitat for the 13 Α 17 displaced birds; is that correct? 14 Q That certainly is what our calculation showed and 15 18 Α 19 what the historical data has shown. 16 А In fact, on July 4, 1976, Negit Island held 17 Q 20 0 approximately 33,000 nesting California gulls; correct? 21 18 22 That's right. That's my understanding. 19 Α 23 Q I think you testified that that was in comparison to 20 0 24 the later analysis, that was a late count; is that correct? 21 25 Yes. It was done later than most of the other nest 22 Α 00159 23 1 counts had been done to avoid disturbing nesting gulls. 24 2 0 In fact, the nesting counts have been done by the 25 3 Point Reyes Observatory; isn't that correct? 4 Α Yes, since 1983, I believe. 1 5 α And their nest counts are done in May; is that 2 6 correct? 3 · 7 Yes, usually late May. It depends on the -- it 4 А 5 8 varies a week or a month or so either direction, depending 6 9 on what the stage of the nesting is. Q In 1976, assuming there were 33,000 nesting gulls on 7 10 8 11 July 4, would you have expected there to have been a higher number in May of 1976? 9 12 I would have expected a higher number of birds 13 10 Α... settling there, not all of which would have necessarily been 14 11 successfully nesting. So the early season count, or at 15 12 16 least this May count would give you a higher total number of 13
- 17 birds, of breeding adults.
- 18 Q By July 4, if you will, the unsuccessful nesters have
- 19 fled the coop; is that what you are saying?
- 20 Α Gone somewhere else or maybe they are hanging around
 - the lake, but they are not necessarily associated with the
 - nesting colony if they are not going to breed at that point.
- Q Now, while we have this Figure 1-2 in front of us, I think we can all see that Paoha Island is by far the largest island in Mono Lake. 00160 Do you have an opinion as to whether Paoha Island has a potential for nesting areas for the California gull? Opinion only. I have read quite carefully the accounts and field notes from people such as Jessup Dixon and William Dawson, who visited Mono Lake in 1916 and 1919 respectively, both of whom reported nesting gulls on Paoha Island; the two locations I am familiar with were two long obsidian ridges that came off the north side of the island. and then, of course, the embayment on the south side, the southeast corner of the island there was another colony, So, I know that historically they did nest there, but both of those sites are now at least half a mile or more -I have to look at a map to say exactly but some substantial distance from the lakeshore in terms of lateral distance, and also, probably 40 feet or more above the current lake Dawson's photographs in birds of California show very clearly the birds are down right next to the water on the obsidian ridges, and also, in the bay colony, the lagoon colony, I believe. Isn't it true, Paoha Island has not been used for many years as a nesting area for California gulls? Wally McPherson reported to me that they nested there until about the mid 1920's in small numbers and that's the last time I heard of any nesting on Paoha, so it would be 00161 about 70 years. Q Is one of the reasons for that, that there are resident coyotes on Paoha Island? I believe so. They are all over the island. MR. DODGE: Mr. Chairman, any time you want to take a break, it is fine with me. MR. DEL PIERO: Is that a request? MR. DODGE: No. MR. DEL PIERO: Why don't you finish up in four minutes and we will break. MR. DODGE: Q This new information that you got in 1993, now this related to Java Island? That is Java islet. In 1993, when Mono Lake was at 6375, Java was invaded by coyotes; correct? Yes. And Java islet land bridges to the mainland at 6372; correct? Yes. Now, based on that information, do you believe that Twain islet is potentially susceptible to predation at 6375? A I do, but I don't have direct evidence for it other than that they do land bridge at the same elevation, 6372, Twain and Java islets. Once the covotes get to Java, it is about 120 meters from there to Twain, and it is about a 00162 meter or so deep, the water. The deepest doesn't seem very deep. I have been over it in a boat. What I am comparing this to are data from waterfowl breeding up in Northern California, and also, in the midwest where people have looked at coyotes going after waterfowl on islands, and what they have shown in those studies is that somewhere between 170 meters and at least around a meter deep, the two studies differed, but that gives you some
 - range of how much water and how deep it's got to be to deter
 - covotes from crossing over to go to waterfowl nests... Waterfowl is a different prey type, but the predator
 - is the same. I would expect behavior to be the same so it

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14	seems to me that 120 meters at a meter or less dean probably	4.4	that an I discussed earlier in my testimony this morning
15	would not be secure to keep sources off Turkin security		that as t discussed earlier in my testimony this morning,
10	would not be enough to keep covoles off Twain, especially	12	it isn't like a water faucet or something you turned on and
16	given the fact that half the gulls are there.	13	off. If there's disruption and invasion of the island, it
- 7	Q You say half the gulls are there?	14	is going to take a period of years, I don't know how many
3	A Half the nesting gulls are there.	15	years, before the gulls re-establish themselves on that
19	Q In the last two years	16	island.
20	A The last two or three years, over 15,000 nests	17	So you might have actual land bridging two to four
21	O New let me esk you shout Negit Island It's true:	10	noreant of the time, but the estual offect of the lander
21	a now, let me ask you about negit island. It's true,		
22	isn tilt, that few, it any, guils have successfully nested	19	bridge could last a lot longer than that. It could be the
23	on Negit Island in the past three years?	20	gulls would avoid the island for along period of time.
24	A Yes. Some have tried, but they have not been very	21	Q Let me ask you the last California gull question and
25	successful.	22	then we can take a break, Mr. Chairman, if it is all right.
	00163	23	If you look at Table S-1, page 9, in the left-hand
1	O Because Negit Island is physically land bridged at	24	column you see a nargant change in notantial gull meeting
	COTE - servest	24	column you see a percent change in potential guit nesting
2	b3/5, contectr	25	capacity.
. 3	A Yes.		00166
4	Q Now, let me ask you about the managed level of 6377	1	Under 6377 you have plus 440. Do you see that?
5	as described in the DEIR. Now, I think you said in response	2	A Yes.
6	to questions today that Negit was going to be land bridged	3	Q And I am right that you are assuming that at 6377
7	two to four percent of the time.	4	that Negit Island is available to the gulls for pesting:
ò	Was that your testimony, or it was going to be		correct?
~	was that your testimony, or it was going to be		
9	endangered two to four percent of the time?	6	A Yes, that plus 440 assumes it is always an island.
10	A I think we reported the two- to four-percent time	7	It assumes it is always an island. That is the island
11	that it would be I can't remember what we said, Ken. I	8	condition. It is an island. That is the maximum lake
12	would like to be accurate about it. This is an important	9	elevation. There would be maximum nesting substrate
13	point. Do you remember what was said on that?	10	available for that elevation
14	MR CASADAY: A Well I said I believe the last	11	O As you have told us Negit Island is not always
15	time it was offectively lond bridged, that is to say	1 1 2	a reliable at the 6277 meanered elevation?
10	ume it was effectively land bruged; that is to say,	12	available at the 6377 managed elevation?
16	shallow water that coyotes could cross.	13	A No, it is not.
17	Q And my question to you, sir, is in light of the	14	Q So, that plus 440 could be misread by the reader?
18	information you received this year about coyotes invading	15	A I think we need to be careful in the final document
19	Java, do you feel that two to four percent should be	16	to reference the fact that under drought conditions there
20	increased?	17	could be land bridging there and that that isn't necessarily
21	DB REEDY: A I don't know. The difference is	10	a stable number
22	because there is really quite a short swime from Nagit	10	a stable fumber.
22	because there is really quite a short swim from Negit	19	If it were and if it always stayed an Island, which
23	peninsula to Java islet. And if you create a fairly shallow	20	It could do on the 63/7 without any drought effects, then
°4	water that's really a wide barrier between the mainland	21	that would be the maximum.
5	Negit Island and trap the coyotes off Negit, I don't know	22	The fact is we do have droughts sometimes.
	00164	23	MR. CASADAY: A May I point out that table does
1	condition	24	acknowledge through the use of asterisks there is a
2	0 Mr. Casaday said this marning I believe it was the	25	significant impact and that is referring to the drought
~	the four parametic independent of any deviate	25	significant impact and that is releasing to the drought
3	two to rour percent is independent of any drought	-	
4	conditions; isn't that correct?	1	MR. DODGE: Theed 20 more minutes for the same
5	DR. BEEDY: A Yes.	2	reason that other counsel needed a full hour.
6	Q So that Negit Island becomes unavailable a certain	3	MR. DEL PIERO: That's a likely explanation.
7	percentage of the time at the 6377 managed elevation guite	4	MR. DODGE: I am going to do it in less than 20
8	apart from any drought?	5	minutes. I do have one more series of questions on the
ā	A Ves quess it would be two to four percent of the	Ā	guils that I neglected to ask
10	time that would be true	Ĭž	Quile that integroted to dec.
10			C Looking at Mr. Hasencamp's testimony again on page
11	U Unless those numbers were changed by recent	8	42, and again, I will ask you to assume that this does
12	information?	9	represent simulated, as it says in the title, simulated Mono
13	A And Ms. Goldsmith mentioned there was an error in the	10	Lake elevation under the LADWP Management Plan. We talked
14	drought analysis, so these numbers could change, but	11	about the high points of that, sir.
15	certainly the 6377 is the number you have to be concerned	12	You also see that it drops twice to approximately
16	about. When it gets that low or lower, then you are likely	12	6375 feet?
17	to have land hridging or land access by opyrates	11	DR REEDV: A Ves I do see that
18	MR. DODGE: That is all I have on the guils.	15	Q And also, in the text you see under the drought
19	MR. DEL PIERO: Good. We'll take a break and come	16	situation, the lake can go as low as 6373.3.
20	back at 3:30.	17	A Yes, I see that.
21	(Recess)	18	Q Now we talked about the potential effect on Paoha
22	MR. DEL PIERO: Ladies and gentlemen, if you would be	19	Island nesting areas on the high points.
23	kind enough to take your chairs, we will continue	20	Are there also problems regarding Negit Island and
24	Mr. Dodge, when last we left you were going to	21	Twain islet at the low points of the proposed DMP management
27	with bouge, when last we left you were going to	21	I want islet at the low points of the proposed own management
20	explain with you needed 20 more minutes.		
	00165	23	A Certainly, and at this minimum lake that's reported
1	that I would necessarily assume that two to four percent was	24	here, 6374.6, Negit Island would be accessible to coyotes,
2	the wrong number.	25	so that would be a definite problem, and based on the
3	I would like to see the model data again. I couldn't		00168
Δ	answer that question for you	1	numbers that Liust gave you on the covotes in response to
-	$\Omega = \Omega k_{\rm av}$ as between the menored lake levels described in	1	waterfould twould say that it's a good change that
5	the DEID 6077 and 6200 E		wateriowi, i would be that it sha yoou change that
:	the DEIR, 0377 and 0383.5, assuming the protection of Negit	3	certainiy Java and I wain islets would also be vulnerable to
1	island is thought to be a good idea, I want you to make that	4	coyote invasion.
8	assumption, which of the two managed lake levels is the	5	Q I have just a few questions on the Caspian tern. I
9	minimum in your view to protect Negit Island?	6	think in response to questions by Ms. Goldsmith, you said
10	A Well, would say 6383.5. and the reason for that is	²⁶⁶⁷ 7	there were approximately ten nesting pairs.
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8 Do you recall that testimony? 5 referenced earlier today, had some photographs of the lake 9 Α I believe I said there were up to 14 and I think in 6 at about that elevation which shows substantially more 10 Winkler's study he reported 15 pairs or something along alkali flies than are there now. 8 11 those lines. If this were the case, then certainly that advantage, Q Dr. Winkler found these Caspian terns on Twain in 9 I would expect to be more than counterbalancing for the loss 12 10 13 1976; correct? of the habitat, the open habitat. 14 Α That's correct. 11 0 So, what your testimony is, is that if there is at 15 Q They might have been there nesting earlier than that? 12 6410 feet better lake productivity in terms of food for the birds, that would potentially be an advantage? 16 Α I have two pieces of evidence on that. The Jurek 13 17 paper of 1972 reported, a survey, wasn't actually a paper, 14 Α If that's true. I am basing that on historic 18 it was an unpublished survey, and he reported them in August 15 photographs, I don't think our analysis -- I don't think we 19 of '72 and we can't assume they were breeding, but they were 16 came to a conclusion on that, but based on that information. 20 certainly there in '72. I don't know whether there was an 17 Q Let me ask you a couple of questions about the 21 error in the paper or not, but Gill and Mewaldt's paper in 18 phalaropes. Now, you have told us that in the past four 22 the Auk of 1983, they reported 14 Caspian terns banded in 19 years they have shifted to the eastern side of the lake; is 23 Mono Lake between 1960 and 1961. It may be an error in 20 that correct? 24 their data table because I have never heard the reference. 21 Α Yes, that's correct. Since 1988, possibly earlier 25 I guess I could call the breeding bird laboratory and 22 than that, but I can only document it with field notes and 00169 23 data sheets since 1989. 1 ask who may have banded those birds, but if that's true, 24 Q Is that over here on the Warm Springs area on this they were there as early as the sixties. 25 2 map? 3 0 I believe you testified there were driven off Twain 00172 4 in 1982 by low lake levels; is that correct? 1 А Where I have seen them is closer to the Sulphur Pond 5 Α Yes, they left Twain in 1982 and relocated to the 2 area, up in that general location, northeastern shoreline, 6 Paoha Islands. 3 and they move around in that vicinity to some extent. 7 Q Now, is it your belief that if Mono Lake were ordered 4 Q And you and Ms. Goldsmith were talking about the 8 5 to a higher level that the Caspian tern, if they lost their proposition that these birds were no longer in the western 6 9 Paoha Island habitat, could return to Twain islet? embayment. Do you recall that testimony? 10 As I testified this morning, the portion of Twain 7 Yes, I do. Α Α 8 islet, as I understand it, where they nested before is quite Q 11 I had no idea what you were referring to. What is 12 a high terrace on Twain islet, which would be above most of 9 the western embayment? the alternatives that we have been discussing. 10 Essentially it's the area west of Negit Island, Paoha 13 Α 14 The other point that I think I failed to mention this 11 Island to the County Park, the shrimp boat dock, the marina, 15 morning is if you look at the territory requirements, they 12 the whole western shoreline basically from Black Point 16 tend to nest in very dense colonies. The average territory 13 around to South Tufa. 17 size per Caspian tern is 1.5 square meters, a little over 15 14 The whole western shoreline being that portion Q square feet, so you have 14 or 15 nests you are talking 18 15 immediately adjacent to Highway 395? about in an area of 200 square feet, maybe 10 by 20 feet 19 16 Α I would say it would be a bigger area than that. I would go all the way from behind Black Point, not just the 20 would accommodate, an area as big as right in front of us, 17 21 would be enough land to accommodate that many nests. area along 395, but that would be part of it. 18 22 So, we are not talking about a large area and they 19 Q Would you agree with me that the western embayment 23 are very adaptable in their choice of nesting substrate. 20 area is the area that for the past few years has been most Q When you told Ms. Goldsmith that at 6383.5 habitat heavily visited by tourists? 24 21 22 25 for the Caspian tern would be lost, what you meant by that Α I am not a recreation expert, but that is certainly 23 00170 where I have seen the most tourists. 1 was that the particular habitat on Paoha islet would be 24 Q Now, you told Ms. Goldsmith that you felt that the lost, not that the habitat at Mono Lake would be lost? 25 2 distribution of phalaropes that you had observed related to 3 That's correct. The way you phrased the question, 00173 Α 4 would it be true the existing habitat on Paoha islet would food availability. 1 2 Do you recall that testimony? 5 be lost, is a true statement. Would the attractiveness of Mono Lake for that 3 Yes, Ido. 6 Α 7 species be affected by that, my answer to that is probably 4 Q Can you tell us whether or not in your view the food 8 5 availability is related to lake elevation? not. A Only that there's a correlation, again, we don't have 9 ٥ A few questions about the snowy plover. As I 6 10 understand, they nest on alkali flats; correct? 7 a perfect natural experiment we have done here; that is, 11 Also barren habitats of a variety of types, pumice 8 running that lake at multiple elevations and examining the Α 12 plains, very barren habitats. It doesn't have to be alkali. 9 responses of the phalaropes at the whole range of 13 Q And for the existing population of snowy plover at 10 elevations. Basing it on the observations of Dr. Rubega that they 14 Mono Lake, does the 6410 managed alternative provide 11 are foraging at less than maximal levels, and also, that 15 sufficient nesting habitat? 12 16 Α My calculations, based on Mr. Page's estimates of 13 between the elevations of, say, 6385 and 6372, I can't territory size, suggests that at the 6410-foot alternative, remember the exact elevations, but that is the biggest drop 17 14 18 there would be enough habitat available to accommodate the 15 in the amount of hard substrate that is inundated, which is 19 point of reference or 1988 population that was the most 16 the pupation for the alkali fly, the primary prey species. 20 recent population. 17 When you look at the graphs, the biggest drop is the 21 18 At that point, I did not predict that they would be point where you get the biggest change in productivity 22 space limited at 6410. 19 overall. 23 Q At 6410 feet, are there any potential advantages to 20 Q Now, you have told us that you asked for data from 24 21 Dr. Jehl on distribution, not only of the red-necked the snowy plover? 25 Well, that depends on something I don't have the 22 phalaropes, but also, Wilson phalaropes. Α 00171 23 А Yes, I did. 1 answer to, and that is how much invertebrate productivity 24 a And I took it from your testimony you hadn't received 2 there would be because it is a balanced thing. They need 25 that data? the open habitat. They also need a rich source of food 00174 3 No, I have still never seen that data. 4 insects, and if we assume that the Fisher paper that was 1 Α

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2	Q Did he refuse to send it to you or he simply failed	25	C	Which have a WHI value in each case of .12; is that
3	to do so?	1 -		00177
4	A I guess he just failed to do so. I asked him for it		rig	ght?
3	This is the second of data havefore to in his		A	A .12, yes, that is correct.
7	direct testimony, because the data he procented here are the	3	Q	Why is that, sir?
8	same data be published in his 1986 article. This is two			well, I saw two of three species. I spent days and
9	vears of that data on red-necked phalarones		h	whet larks and a few gulls fly over. So, there was bardly
10	Q Relating to 1981 and 1982	Ĭž	ar	w use it's expressed by the total species richness
11	A For that species, but the other subsequent ten years.	8	oł	pserved in that habitat divided by species observed
12	or whatever, and other species data I have never seen.	9	el	sewhere in the Mono Basin, and it came out to 100 W/HI
13	Q Okay. The last line of questions, sir I would	10	v	alue. That's how that number was calculated.
14	like you to refer to Table S-1, page 3.	11	Ó	Going back to the reasonably large numbers, dry
15	Do you have it there, sir?	1 12	n	neadow and alkali meadow, can you describe to the Board what
16	A Yes, I do.	13	S	ort of habitat we are talking about?
17	Q Now, you say as Mono Lake rises there's less	14	A	Yes. The dry meadow, as I recall, was largely
18	vegetated wetland; correct?	15	S	altgrass, very dry saline soils, and the alkali meadow had
19	A Yes, that's correct.	16	а	higher plant diversity.
20	Q And as Mono Lake rises, there are more lagoons;	17	erveen	I think maybe Mr. Jokerst could probably give you
21	correct?	18	b	etter information about what would be out there than I
22	A Yes, although I would say those lagoons as a general	19	C	puld, if you would like him to answer that part of the
23	term, that I would say more open, water away from the lake.	20	q	uestion.
24	It may be ponds or lagoons, and they would be different in	21	Q	If he wants to contribute.
25	shape and size and water quality, but that's true.	22		MR. JOKERST: A Certainly, dry meadows supported a
	00175	23	V	ery low number of plant species and oftentimes very low
1	Q Now, let me ask you to look at page 3F-76.	24	p	ant cover. They weren't entirely restricted to saline
2	Do you have that, sir?	25	a	kali areas, but to some extent there was a pretty large
3	A I can find it real quick.	I		00178
4	Q And if you will go to 3F-74, it says: Impacts and	1	ca	rrelation between the two.
5	mitigation measures for the 6383.5-foot alternative, and	2		Plant cover was generally very low in the dry
6	then on page 3F-76, I would like you to look at the second	3	m	eadows, and it's a very low-growing type of vegetation.
7	paragraph.	4	Th	e alkali meadows were distinguished from the dry meadows
8	Do you see that?	5	on	the basis of having higher salinity and alkalinity in the
9	A it starts out, After a period of years, approximately	6	su	bstrate, and a water table that approached or was at the
10	six acres of whatever		ธน	rtace for a significant part of the growing season.
10	Disk acres of ireshwater ponds would also form at the	8	4 L	As Ken said, the plant species richness was higher,
21	Rush Creek delta under this alternative, and that s also	10	th	ere were more plant species and the habitat vegetative
· 3	A Vec		- C(over was generally complete in the alkali habitat, although
14	A res. O Okay and then it goes on to say Adverse effects of		u u	ere would be an occasional salty parten stand of
10	inundating low value lakeshare behitate would be more than	12	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	egetation standing slightly higher off the ground.
17	offeet by the recreation of important new sources of water	10	u v	Navietion of the loss of Long Volley wetlends due to the
18	around the lakeshore: significant effects on wildlife are	15	00	reation of Crowley Reservoir. Did you in fact make such
19	nor expected	16	2	calculation?
20	Do you see that sir?	17	u	DR BEEDV: A I wasn't aware of it when I wrote the
21	A Yes I do	18	D	FIR I didn't know there were 2400 acres of wetlands. I
22	Q Now, is this an effort at 6383.5 to try to calculate	19	h	ave to admit that. I learned that from reading. I believe.
23	the wildlife impacts of the decrease in vegetative wetlands	20	D	r. Stine's direct testimony and { have not looked into
24	at higher lake elevations vis-a-vis the increase of lagoons	21	th	at.
25	at higher lake levels?	22		I do know that the current lake, Crowley Reservoir
	00176	23	w	etlands of at least the western shoreline have quite high
1	A It's an attempt to make a qualitative balancing or	24	Va	alues for wildlife.
2	comparison. As I have testified to Mr. Thomas, I didn't	25		The only information I have got on that 2400 acres
3	feel I was able to do a quantitative analysis on the value	I		00179
4	of those ponds.	1	Wa	as Dr. Grinell's trip there in 1937, where he described
5	Q And looking at Table D-5, which you and Mr. Thomas	2	so	me of his observations from a train going by. He did talk
6	discussed, Table D-5 attempts to give some assessment of the	3	ab	out it. That's the only information I have got on what
7	wildlife values of the various types of the Mono Lake	4	th	ay look like.
8	shoreline?	5		MR. CASADAY: A May I add for purposes of our
9	A Yes, it does, except for lagoons and ponds.	6	an	alysis we assumed that point of reference conditions
10	Q And am I right that if you look at Table D-5 again,	7	inc	luded the previous creation of Lake Crowley Reservoir.
11	under the final column, change, WHU's, it shows basically	8		MR. JOKERST: A Our analysis assumed that the
12	605.9 WHO's lost in a comparison of prediversion and 1991;	10	Ta	culties associated with the DVVP project were already in a
13	Correct?		p	ace at the time that we characterized change from
14	A No, actually, that's a gain on that one. What I am	12	pi of	ediversion to point of reference, therefore, the impacts
10	that's not part of the equation and what hoppened you have	12	\$D. ****	ithin the scone of our analysis based on the sideboard we were
17	cone from prediversion to 1991 and you increase the acreage		aa yy An	terret ette evere et ette analysis pased ett the sideboard we weld
12	of vegetative habitat substantially by thousands of acres		 h	the Board
19	and even at low WHU values, that still converts out to a	15	0	Is this Dr. Grinell the same one who wrote a big fat
5	600, whatever, I can't read that number, 605.9	16	h	pok on the wildlife of Yosemite vallev?
∠1	Q And if I am reading it correctly, the great majority	17	2.	DR. BEEDY: A It's the same Dr. Grinell that wrote a
22	of that is represented by dry meadows and alkali meadows: is	18	bı	inch of big fat books. He wrote Animal Life in Yosemite.
23	that right?	19	he	wrote Distribution of the Birds of California with Dr.
24	A That's correct, yes.	20	Α	den Miller. He was one of the best known and most
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21 223 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 8 9 10 11 12 13 14 15 16 17 18 19 22 23 24 2 1 2 3 4 5 6 7 8 1 13 14 15 16 17 18 19 22 23 24 2 1 2 3 4 5 6 7 8 1	respected field biologists of his time. Q Thank you. MR. DEL PIERO: Time is up. MR. DODGE: I have no further questions. MR. DEL PIERO: Thank you. 00180 Mr. Roos-Collins. Ms. Scoonover, do you anticipate asking questions of this panel? MS. SCOONOVER: No, I don't, Mr. del Piero. CROSS-EXAMINATION by MR. ROOS-COLLINS: Q Good afternoon. My first line of questions concerns vegetation along the tributaries to Mono Lake, so this line of questions is for you, Mr. Casaday. MR. CASADAY: All right. Q In the Draft EIR, page 3F-45, the second paragraph, it is estimated that the extent of mature cottonwood willow forest had been reduced by almost 93 percent on Lee Vining Creek, and more than 97 percent on Rush Creek. Is that to say that during the period 1941 to 1989, there was a near total elimination of mature cottonwood- willow woodland along those tributaries? A That's correct. A And on pages 3F-46 and 3F-47, you discuss losses of other types of riparian vegetation along these tributaries; is that correct? A Yes. U Would you characterize those losses as substantial? A Yes. Let me turn back to Chapter 3C, specifically page 3C- 00181 21. Under the section Tributary Streams, you discuss the causes for the loss of riparian vegetation along the tributary streams. A Yes. A Yes. C Is it your opinion that the loss of riparian vegetation between 1941 and 1989 was largely related to the operations of the Los Angeles Department of Water and Power water cauble sucter?	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	 Q Focusing on the far right-hand column, does that column show that under the alternatives considered in this Draft EIR you did not expect to recover the prediversion riparian vegetation in the conceivable future? A That is correct. It shows a minimum and maximum estimate and the maximum estimate even shows a shortfall of some 20 percent of the original extent of riparian acreage even over the long term. 00183 Q By the way, do those percentages correspond to a particular point in the future? A No, they do not. They would be considered potentially riparian based on the presence of groundwater primarily, so those would be over the long term. Q Do you remember Mr. del Piero's question this morning about the fishery which might be maintained by one cubic foot per second flow in a hypothetical stream? A Yes, I do. Q If there were a one cfs flow in the Lee Vining Creek at site, what riparian vegetation would you expect to be there? A I believe we did comment on this somewhere in the document. Generally, if there is flow in the stream continuous to the lake, the water table, the induced water table in the adjacent riparian zone Would not be depressed. However, when you get down to a one cubic foot per second flow in the channel, the water is not filling the channel from bank to bank, and most likely in that case you would start to see the water table declining in the near shore area. Q In fact, wouldn't you expect a limited flow like one cubic foot per second to produce a riparian vegetation similar to that which existed between 1941 and 1989? A Well, not necessarily. Between '41 and '81 there was 00184 - well, I am not sure what the answer to that is. MR. DEL PIERO: Mr. Roos-Collins, you may be able to get an answer if you specify a shorter period of time. MR. ROOS-COLLINS: Mr. del Piero, it's a hypothetical
8 9 10	water supply system? A Yes. Q You discussed with Mr. Birmingham Figure 6 from the	5 6 7	question. MR. DEL PIERO: The time line you identified is longer than I have been alive.
11 12 13 14	direct testimony of Dr. Beschta showing Lee Vining Creek looking to Mono Lake from the County Road crossing in August of 1993.	8 9 10 11	A If I could briefly correct what I said about that last column of numbers on Table 3C-14 earlier to Mr. Dodge. He asked me if that included the effects of watering a secondary channel and I may have said mistakenly, yes
15 16	 A I believe so. Q How does the riparian vegetation depicted in Figure 6 	12 13	In fact, it does not. It assumes water simply in the main channel.
17 18 19	same location? A Well, I can't answer that looking at the photograph.	14 15 16	channels only? A That is correct.
20 21 22	To answer that, we would compare the image we compared the images on aerial photographs for those two periods and we did have aerial photography in the prediversion	17 18 19	Q It assumes that currently dry channels are not reopened; is that correct? A That's correct.
23 24	condition. Looking at the County Road crossing I'm sorry,	20 21	Q If currently dry channels were reopened, would that have an effect on your conclusion as to which alternative
25	these are in Appendix P, I believe. The prediversion 00182	22 23 24	would produce the most riparian vegetation? A If those channels were rewatered continuously through the growing season, then a higher water table would be
1 2 3 4 5 6 9 10 7 8 9 10 7 11 12 13 14 15 16 17	riparian vegetation on Lee Vining Creek around the County Road is shown on Figure P-78. The photograph is looking downstream from the County Road. On the aerial photographs we saw continuous mature cottonwood-willow forest downstream of the County Road in the prediversion period on the order of 300 feet wide. In the point of reference condition immediately downstream we see some barren areas. We see some great basin scrub, we see actually quite a mosaic of what I would call fragmented habitat. We don't have mature cottonwood forests except for some patches, and we don't have the width that we had before. As I said, we have some unvegetated and some xeric or some great basin scrub habitat as well. Q Mr. Casaday, please turn to Table 3C-14, which you previously discussed with Mr. Birmingham. A All right.	24 25 1 2 3 4 5 6 7 8 9 10 11 12 13 14	the growing season, then a higher water table would be induced along those channels, and in some locations those 00185 channels are across areas that would not have a high water table from the main channel itself. Now, our finding was, however, if you only turn water into these channels for a period during snowmelt and then do not sustain flow through them throughout the summer, the water table will decline back fairly rapidly to what you might call the main water table supported by the main channel, so it would depend on whether the flow is sustained or not. Q Let's discuss Table 3C-14 further, assuming that we maintain existing channels and do not rewater currently dry channels. As I understand Table 3C-14, it supports the conclusion that a lake level with a lower flow regime would

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15 16 17 18 20 21 22 23 24 25	result in more riparian vegetation than certainly lake levels with higher flow regimes; is that correct? A That's correct. Although I suppose I would first say we are getting very similar answers among the alternatives here where there's not a strong trend in the upper direction with lower lake levels. Q Do you have an opinion based on botanical factors where less water might produce more vegetation than shown in Table 3C-14? A Yes, there are two effects there, the effect of the higher streamflows to raise the water table and increase the 00186	12 13 14 15 16 17 18 19 20 21 22 23	thresholds given to us by Mr. Woody Trihey to other data we had. Specifically, Dr. Stine had expressed an opinion earlier that Rush Creek was stable to about 350 cubic feet per second, but perhaps not beyond. And that corroborated Mr. Trihey's recommendation for Rush Creek. We also observed Rush and Lee Vining Creeks in the field, and it ran 160 to 180 cubic feet per second and felt that these channels were very stable at these flows. So, we believe that the threshold certainly should be above those numbers. We observed Parker and Walker Creeks when they were rewatered, and in one period we observed excessive erosion.
1 2 3	effects of actual flooding of a fair acreage of riparian vegetation down near the mouth of these incised streams, and	24 25	adjusted over a period of days, and we concluded through
4	as it turns out, it's slightly more than compensated by the	1	that experience that flows of about 21 cubic feet per second
5	flooding effect, so, for this reason, the net effect is	2	for Parker and 14 cubic feet per second for Walker were
6	actually the flooding slightly outweighs the increase that	3	about the maximum that should be passed through there.
7	you would expect at the higher lake levels.	4	And again, that generally corroborated Mr. Trihey's
8	Q Did erosion or incision of the channels figure into	5	recommendation for Parker where he said 20 to 25 cubic feet
9	your conclusion that the 6377-foot alternative would have	6	per second, and for Walker where he said 15. That's very
10	more riparian vegetation than the 6383.5 alternative?	7	close to what we said.
11	 A Again, the conclusions represented by these numbers in this Table 3C-14. Q Right. A I'm sorry, the question again was, did channel 	8	So, we did, therefore, from that information, judge
12		9	the RTC values as reasonable.
13		10	I also would like to address Mr. Trihey's letter
14		11	specifically. He said we misunderstood his statement on
15	incision play a major role here.	12	behalf of the RTC about thresholds, and then he went on to
16	Q Yes.	13	state that he gave these numbers to us as flows that should
17	A Yes, the channel incision, in fact, brings about both	14	not be exceeded during the early years of restoration to
18	of these effects. The channel incision first tends to lower	15	prevent erosion of non-vegetated stream banks.
19	the water table in adjacent riparian areas and thereby cause	16	That was exactly the criteria we Were seeking, so I
20	them to convert to sagebrush scrub, and thereby diminish the	17	have to correct the record and say that there was, in fact,
21	extent of riparian vegetation.	18	no misunderstanding. That is exactly what we understood
22	At the same time, down in the very lowest reaches the	19	those values to be.
23	channel incision is so great that the raising of the lake	20	He does go on in his letter to talk about
24	level floods that incised channel and floods out the	21	catastrophic damage might require higher stream thresholds
25	recovering vegetation in that area.	22	where the bed topography is altered. This isn't well
1	Q Let me ask you now to turn to page 3C-39,	23	defined, but we would agree that channel evulsions that is
2	specifically the last sentence on that page where it says:	24	where the channel quite rapidly shifts to a new location,
3	Additional incicon would both remove ringrian vegetation	25	that kind of instability would indeed require higher
4	Auditional initial would be added to the initial of the second se	1	thresholds, but we did not attempt to evaluate those
5		2	catastrophic thresholds. We were after exactly the
6		3	thresholds Mr. Trihey provided us.
7 8 9	would cause the lowering of water tables. As it actually happened, it would tend to cause some direct losses of. riparian vegetation from erosion, bank erosion.	4 5 6 7	Q Mr. Casaday, is it your understanding that under the 1990 injunction in the Mono Lake cases no diversions have occurred nor are occurring today?
10 11 12 13	erosion. The first paragraph discusses the potential for such erosion. The final sentence in that paragraph says: Thresholds estimated by the Restoration Planning Team can be	8 9 10	IFIM study in the upper Owens River for the most part, yes. Q Would it be fair to say then that the flow regimes
14	used.	11	today are higher than would be expected under the 6383 or
15	Are you saying there that you used the thresholds	12	6390 alternatives?
16	estimated by the Restoration Planning Team to come to the	13	A Yes, if you acknowledge the variability from year to
17	conclusion that you have reached about the erosion potential	14	year, that is to say, if we went on for a long time like
18	associated with each lake level?	15	this, the average over a long term, yes.
19	A Well, yes. I believe that is what we are saying	16	Q Acknowledging that variability?
20	there. We did use it, yes	17	A Yes
21 22 23	Q Do you recall last Thursday you and I discussed Mr. Trihey's August 30, 1993, comment letter to Mr. Canaday where he addressed thresholds for erosion?	18 19 20	Q Have you visited Lee Vining and Rush Creeks in the past year? A Yes, I have.
24 25	A Yes. Q Have you read that letter since our discussion last 00188	21 22 23	 Q Have you seen evidence of significant channel erosion during those visits? A I have not actually surveyed the channel I should actually surveyed to the channel I should have not actually surveyed to the channel I should have not actually surveyed to the channel I should have not actually surveyed to the channel I should have not actually surveyed to the channel I should have not actually surveyed to the channel I should have not actually surveyed to the channel I should have not actually surveyed to the channel I should have not actually surveyed to the channel I should have not actually surveyed to the channel I should have not actually surveyed to the channel I should have not actually surveyed to the channel I should have not actually surveyed to the channel I should have not actually surveyed to the channel I should have not actually surveyed to the channel I should have not actually surveyed to the channel I should have not actually surveyed to the channel I should have not actually surveyed to the channel I should have not actually surveyed to the channel I should have not actually surveyed to the channel I should -
1 2 3 4	WEEK A Yes, I have, and I believe I misstated or gave him some erroneous response to earlier questions now that I have seen it.	24 25 <u>1</u>	purposes of evaluating their stability. I have only been in 00191 the general area for other reasons.
5 6 8	Q Could you please correct your earlier responses? A Sure. Well, there were a couple of items. One question was, did Jones & Stokes rely entirely on the RTC flow thresholds for assessing potential for stream-bank	2 3 4 5	 Q Have you discussed with Mr. Trihey the conclusion in Table 3C-14 that the 6377 lake level would result in more riparian vegetation than higher lake levels? A Have I discussed this with Mr. Trihey? No.
9	damage under the alternatives.	6	Q Let me pursue a different topic for Mr. Trott.
10	I answered that yes. I should have qualified that.	7	Specifically, water rights which are addressed in Chapter 3G
11	We also did a few other things. We compared those	8	of the Draft EIR.

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9	Did you write the section of Chapter 3G that	6	A Certainly.
10	addresses water rights in the Mono Basin?	7	MR. FRINK: I have a point of clarification, Mr.
11	MR. TROTT: A No, I did not.	8	Roos-Collins. I believe the 83,000 acre-foot per year
12	MR. CASADAY: This is my fault. Mr. Trott addressed	9	diversion that you referred to was a per-year export from
13	the agricultural aspects of the land use. The other aspect	10	the Mono Basin.
14	I addressed with the help of some of my staff, who are not	11	In addition to that, I believe there was some in-
15	here.	12	basin diversion during the period that the City of Los
16	Q Mr. Casaday, then, you will suffer some further	13	Angeles has been exporting water, so I am not sure we are
17	questions which I will put to you.		comparing apples and apples.
18	MR. DEL PIERO: Your time is up. Unfortunately, our	15	MR. ROOS-COLLINS: Mr. Frink, I appreciate that
19	MP POOS COULINS, I request additional time for the	10	$\Omega = M(\alpha)/\alpha$
20	wh. ROOS-COLLINS: Trequest additional time for the	10	diversion from 1974 through 1989 by the Los Angeles
22	MR DEL PIERO: 1 will point out two things At the	19	Department of Water and Power exceeded 83 000 acre-feet a
23	end of ten minutes, we are going to have to take a break	20	vear for all purposes?
24	because I have to make a phone call; and secondly, Mr.	21	A Yes.
25	Birmingham, I don't know that it is possible for you to bill	22	Q Now, let's return to the subject of return flow pre-
	00192	23	1941, and turn to page 3C-5, the paragraph which begins,
1	everybody else in terms of your explanation as to why you	24	Conversely, substantial spreading of irrigation waters
2	need additional time, but I would submit it anyway.	25	A Yes.
3	MR. BIRMINGHAM: Mr. del Piero, I will submit that it		00195
4	is ultimately going to end up on DWP's desk anyway.	1	Q And then, it goes on to state: Large amounts of the
5	MR. ROOS-COLLINS: Mr. del Piero, I will so	2	water distributed over the highly permeable Pumice Valley
6	stipulate.	3	turned to Rush Creek in natural springs located along the
/	MR. DEL PIERO: Noted.	4	base of the high bluffs on the east side of the Rush Creek
8	Why don't you proceed.	2	And then, it goes on to describe other natural
3	MR. ROOS-COLLINS: Fage 3G-17, the second paragraph	7	things: is that correct?
11	Denartment of Water and Power averaged 83 000 acre-feet of	8	Δ Yee
12	water from the Mono Basin	9	0 Would it be fair to conclude then that the net loss
13	is that your opinion?	10	pre-1941 as a result of irrigation diversions was
14	MR. CASADAY: A Yes.	11	substantially less than the 30,000 to 49,000 acre-feet
15	Q Let's turn to page 3G-5, the second and third	12	because some of that diversion returned to the streams?
16	paragraphs. Do those paragraphs state that the diversion	13	A That's correct.
17	from Rush and Lee Vining Creeks and their tributaries before	14	Q Finally, Mr. Jokerst, I have a question for you about
18	1941 averaged between 30,000 and 49,000 acre-feet a year?	15	vegetation in the upper Owens River. Do you have an opinion
19	A Actually now here we are in the section on	16	about how Los Angeles' exports of Mono Basin water beginning
20	agriculture which Mr. Trott provided, but I could probably	17	in 1941 affected riparian vegetation below East Portal?
21	answer the question.	18	MR. JOKERST: A Could you clarify what you mean by
22	We are adding the numbers in this paragraph up?	19	riparian vegetation? Would that be woody, herbaceous, or
23	Q The last sentence in the first full paragraph states:	20	
24	from the four tributery streams, and then in the payt	21	A Yes ido
25	1011 the four tibutary streams, and then in the fiext	23	0 And what is that oninion?
1	paragraph it is stated that the average might have been	24	A That there was an effect and that the geomorphic
2	49,000 acre-feet a year, somewhat higher than the previous	25	changes induced by the higher streamflows did cause bank
3	paragraphs estimate.		00196
4	MR. TROTT: A That's what it says, yes.	1	erosion and relocations of bank channels which may have
5	Q This isn't a trick question. I am just trying to	2	resulted in both changes in the amounts and relative
6	understand your conclusion about the average diversion pre-	3	proportions of the various riparian habitats there.
7	1941 from these tributaries. My understanding is that the	4	The net effect, however, may have been negligible as
8	diversion from 1930 to 1941 averaged between 30 to 49	5	there would have been gains where channels were abandoned.
9	thousand acre-reet; is that correct?	5	U. Inank you.
10	A res, I believe it averaged around 30,000. It could have going to what we know	, ,	ten-minute addition?
12	Ω And that is substantially less than the average	9	MR BROWN. Three
13	diversion which occurred between 1974 and 1989; is that	10	MR. ROOS-COLLINS: Mr. Casaday, we are not guite done
14	correct?	11	then. Let's return to water rights, and specifically, let's
15	A The average diversion for what purpose?	12	discuss the predecessor water rights which Los Angeles
16	Q Los Angeles Department of Water and Power.	13	acquired before it obtained the permits in June, 1940, which
17	A For irrigation or for other purposes?	14	became the licenses which are the subject of this
18	Q For all purposes.	15	proceeding.
19	A Back to Ken.	16	Are you with me so far?
20	MR. CASADAY: A Would this be substantially less	17	MR. CASADAY: A I believe so.
21	than total diversions; yes.	18	Q Is it your understanding that Los Angeles DWP before
22	U We just discussed the average diversion from 1974 to	19	1941 acquired the water rights which had previously been
23	1989 was 83,000 acre-teet, and here on page 3G-5, it is	20	used for the irrigation diversion of 30,000 to 49,000 acre-
∠4 2⊑	stated that the pre-1941 diversion averaged between 30,000	∠ I 22	Tool a year : A Vac I believe that's correct sthough I am not sure
∠0		22	that we can give you an exact chronology of when each
1	A Right.	24	element of that total amount was acquired
2	Q That's substantially less.	25	Q But it is your general understanding?
3	A Yes.		00197
4	Q Of the diversion pre-1941, did some water return to	1	A Yes.
5	the streams?	2	Q And Los Angeles DWP holds those predecessor rights

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3	today; is that correct?		00
4	A That's my understanding, yes.	11	Q Do you recall the name of the other one?
5	MR. ROOS-COLLINS: Thank you. No further questions.	2	A Something to do with the geohydrology of lake
	NR. DEL PIERO: Thank you very much.	3	fringing wetlands. I couldn't recite the exact title right
	As I indicated, I am going to break right now,		now.
۵	ivet plan on starting again at 4/20		MR. FRINK: From that we can identify the records.
3	Just plan on starting again at 4:50.		That's all the questions I have.
10	Ladies and gentiemen, I just want to say that it is		I believe other staff have questions.
11	my intent to try and finish this panel today, and I see	8	MR. HERRERA: I will let Jim go first.
12	neads on the panel hodding vigorously, so that they can be	9	
13	Additionally. Ma Dimainsham in terms of the second	10	by MR. CANADAY:
14	Additionally, Mr. Birmingnam, in terms of the way in	11	Q I would like to start with Mr. Sculley on air
15	which you propose to present the witnesses on behalf of Los	12	quality. Just for the record, could you briefly describe
10	Angeles DVVP, I would appreciate it very much knowing how you	13	what you mean by PM 10?
17	would intend to present those witnesses because of the	14	MR. SCULLEY: A PM 10 is suspended particulate
18	number of witnesses you have to present, and in order to	15	matter that fails within a range of size that can be inhaled
19	make sure that all of the parties that might wish to cross-	10	into the lower respiratory tract. In general, that consists
20	examine them are here in a timely fashion, so it doesn't		of sizes that are smaller than 50 microns in aerodynamic
21	from apulating indicate that I would appreciate it	18	diameter which is not a physical size measurement, but a
22	in you could indicate that, I would appreciate it	19	measure of settling benavior.
23	$\frac{1}{1}$	20	it s a fractional sampling, so it is not a 100
24	(Reases)		percent measure of any particular size range except in the
25	(Recess)	22	very small sizes, and it basically goes from essentially IOC
-1		23	percent collection at a one micron size range to close to
1	IVIR. DEL FIERO: Okay, if all of you will take your		zero somewhere below 50 microns, and will depend some
4	MR DODOE. Mr. Dees Calling had finished	25	the instrument that is being used. Firty percent of the
3	MR. DOUGE: Wr. Roos-Collins had finished.	[<u> </u>	
4	MR. DEL PIERO: Mis. Scoonover says she has no		mass that is the 10 micron size range will be collected.
5	questions.		It's hard to explain the terminology of aerodynamics
2	MD. DEL DEDO: Ma. Cianana in ant han	3	diameter without getting fairly involved.
	NIK. DEL PIERO: Mr. Gipsman is not nere.		U Based on your review of the modeling done, what are
8	Anyone else interested in cross-examining?	5	the primary source areas around Mono Lake?
9	MR. FRINK: Statt has some questions on redirect.	6	A The primary source areas are located basically along
10	MR. DEL MERU: Go anead.	1 4	the north and eastern shore of the lake. It's largely
10	MR. FRINK: I NANK YOU, MI. DEI PIERO.	8	efflorescent salt deposits and some of the other barren
12		9	substrates which are a mixture of fine sand, slits, some
• •	DY MR. FRINK:	10	lake-bed clays, and on Paona Island on the western shore
	Q My first question is for Mr. Casaday. Just a few	11	the lake there's an area that geologic literature makes
	minutes ago before the break, you responded to a question	12	reference to as diatomaceous sediments.
10	from wir, Roos-Collins about the water rights that the City	13	I here are many small patches of open areas that are
1/	or Los Angeles nad acquired or may have acquired at the time		potential wind-erosion sources scattered in other areas, but
18	It purchased property in the Mono Basin.	15	the main areas are generally below the 6390-toot contour
19			down towards the lakeshore and extending eastward from
20	IVIN. CASADAT: A Tes.		Black Point area, extending around the lake down towards
21	Q Wir, Roos-Collins went on to ask you if you believe		Simon Spring area.
~~~	that the City of Los Angeles would still hold those water	19	U when you looked at the area of potential or possible
23	rights that existed or that attached to the land it	20	mitigation options of the source areas, what was your
24	purchased in the work basin, and r believe you responded		A Our constant when the same had identified and
25	that, yes, that you think the City would still hold those	22	A Our conclusion was that no one had identified any
		23	measure that we considered to be a reasible measure shor
	A the lieve total easy that was		raising the lake level.
~	A i believe i did say that, yes.	25	I here have been a number of measures proposed in the
3	U Wir. Casaday, did Jones & Stokes have any reason to do		
4	an analysis of the current status of the water rights that		Owens valley area that involve all sorts of physical
5	attached to the property that the City of Los Angeles		construction activity which run into complications in the
6	purchased in the Mono Basin with the exception of the	3	management of the scenic area, and then you have probler
	appropriative water rights that are under consideration in	4	physical access and the physical size of the area.
8	this hearing?	5	Basically, we weren't able to identify anything that
9	A No, we did not do that analysis.	6	looked like a practical feasible measure that would be
10	Q So, the only water rights that you have looked at		consistent with management of the scenic area.
11	specifically from a water rights standpoint are the ones	8	Q Has your opinion changed since preparation of the
12	that are covered by the licenses that the Board is presently	9	EIR?
13	examining; is that correct?	10	A No, it has not.
14	A Yes, that is correct.		u Ivir. Casaday, I would like to get some clarification
15	Q Ukay, thank you.		maybe just for me. I hope it is not just for me, but you
16	I did nave just a clarification for the record. Mr.		undertook an analysis of different lake levels and the
1/	Jokerst, Mr. I nomas asked you the question about Auxiliary		errects of those lake levels on access by terrestrial
18	Report No. 5, and at the time you weren't certain about the	15	predators to some of the nesting sites of the California
19	numbering of the Auxiliary Reports.	16	guis; is that correct?
റ	I was looking back through the list of exhibits and		IVIK. CASAUAY: A Yes.
	my understanding is the Auxiliary Report that you prepared	18	And I thought I heard earlier testimony suggesting
4	is titled, Lake Fringing vvetland Vegetation and Substrate	19	that there's new information on what types of physical
23	Classification Description and Mapping; is that correct?	20	impediments or water depths may preclude coyotes acces
24	IVIN. JUKENSI: I nat's one of two Auxiliary Reports	21	not preclude coyole access to these islands, so I am trying
25	that I authored, yes.	22	to compline the two based on the drought scenarios that y
		1	

20	it s a fractional sampling, so it is not a 100
21	percent measure of any particular size range except in the
22	very small sizes, and it basically goes from essentially 100
23	percent collection at a one micron size range to close to
24	zero somewhere below 50 microns, and will depend somewhat on
25	the instrument that is being used. Fifty percent of the
	00201
1	mass that is the 10 micron size range will be collected.
2	It's hard to explain the terminology of aerodynamics
3	diameter without getting fairly involved.
4	Q Based on your review of the modeling done, what are
5	the primary source areas around Mono Lake?
6	A The primary source areas are located basically along
7	the north and eastern shore of the lake. It's largely
8	efflorescent salt deposits and some of the other barren
9	substrates which are a mixture of fine sand, silts, some
10	lake-bed clays, and on Paoha Island on the western shore of
11	the lake there's an area that geologic literature makes
12	reference to as diatomaceous sediments.
13	There are many small patches of open areas that are
14	potential wind-erosion sources scattered in other areas, but
15	the main areas are generally below the 6390-foot contour
16	down towards the lakeshore and extending eastward from the
17	Black Point area, extending around the lake down towards the
18	Simon Spring area.
19	Q When you looked at the area of potential or possible
20	mitigation options of the source areas, what was your
21	conclusion?
22	A Our conclusion was that no one had identified any
23	measure that we considered to be a teasible measure short of
24	raising the lake level.
25	OO202
1	Owens Valley area that involve all sorts of physical
2	construction activity which run into complications in the
3	management of the scenic area, and then you have problems of
4	physical access and the physical size of the area.
5	Basically, we weren't able to identify anything that
6	looked like a practical feasible measure that would be

- istent with management of the scenic area.
- Has your opinion changed since preparation of the
- No, it has not.
- Mr. Casaday, I would like to get some clarification
- be just for me. I hope it is not just for me, but you
- ertook an analysis of different lake levels and the
- cts of those lake levels on access by terrestrial
- lators to some of the nesting sites of the California
- ; is that correct?
- MR. CASADAY: A Yes.
- And I thought I heard earlier testimony suggesting
- there's new information on what types of physical
- ediments or water depths may preclude coyotes access or
- preclude coyote access to these islands, so I am trying -
- ombine the two based on the drought scenarios that you

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- had predicted in the EIR, and I believe it is new information 20 ٥ 23 Yes, I did. 21 24 on the terrestrial predators' ability to cross certain Dr. Beedy, you testified that there were coyotes on 22 distances and depths. Paoha Island. 25 23 00203 DR. BEEDY: A That is correct, Mr. Canaday. 1 How would that change your conclusions in the EIR, or 24 Ο How did they get there? 25 А I don't know. I know they tried to trap them over 2 would it? 3 Well, I should first say that we actually haven't sat 4 down to do that yet, but I can indicate a direction of 1 there. I do have one piece of evidence from Tom Murphy. He 5 change, and I can maybe at the same time clarify some 2 observed a coyote swimming between Negit and Paoha Island several years ago. He actually saw a coyote out in the 3 6 earlier testimony here about this particular alternative, 7 the 6377-foot alternative where this issue seems to be very 4 water, but that is about a quarter of a mile. 8 5 important. So, that's actually a longer distance and deeper 9 In fact, I believe either Dr. Beedy or I misstated 6 distance than we reported here, so apparently they do have the ability and this is based on some published studies of 10 some of the information in the EIR on this same issue. 7 On page 3F-71 we state two problems during droughts 11 8 waterfowl. It is the only evidence I could get and I did for California gull nesting habitats. We stated that Negit 9 cite the Murphy observation in the Draft EIR. 12 13 Island could be effectively land bridged in two to four 10 Q Dr. Beedy, on the snowy plover, you stated it is a percent of the years under this alternative and cause candidate 2 species? 14 11 15 disruption of gull nesting. 12 Yes, I did. Α Now, the confusion may be a matter of the drought 13 α Did you consult with the Fish and Wildlife Service 16 17 evaluations. That phenomena would occur during what we call 14 relative to their concerns about the status of that species? a normal drought which was not the more rare extreme drought 15 Α There was some official correspondence. I did not 18 19 that we also analyzed. A normal drought is within the data 16 talk directly to the Fish and Wildlife Service. I did talk 20 set that was used under LAAMP for all the simulations, and 17 to people who have done research on this, Gary Page and Mr. 21 that assessment hasn't been challenged in terms of its 18 Shuford, but principally with Mr. Page. drought assessment; so the information there, in other 19 Q Did you describe to him lake level alternatives or 22 words, the conclusion that Negit Island would land bridge 20 scenarios? 23 24 two to four percent of the time, this probability would not 21 Α Yes, I tried to. diminish even with the error found in the drought analysis. 22 Q Did he express any concern to you about these 25 00204 23 particular habitats? 1 Now, the drought analysis error applies to what you 24 Well, his general impression was that it is true that Α might call the hundred-year drought, or what we consider to 25 2 as the lake level is increased we do inundate potential 3 be about the one-percent event. 00207 As you recall, the testimony was that we had over-4 1 nesting habitat. The question is at what point would that 5 estimated the fall of the lake by about a foot. Now, under 2 become limiting for the point of reference population. 6 the 6377-foot alternative, we had concluded that Twain and 3 He did not express a great concern when I told him 7 Java Islets, and this is something other than Negit Island, 4 5 8 these are two islets, that they could be land bridged during express a great concern about the loss of habitat. He did 9 these extreme droughts, again, about one percent of the 6 say that as the lake's elevation increased, it is likely 10 vears. 7 there would be more springs and seeps forming out in the 11 Now, this conclusion was brought into question 8 12 because we have now acknowledged an error in the 9 13 overestimate in that extreme drought analysis. 10 which probably would increase their habitat. 14 However, this is a long explanation and I hope I can 11 As some habitat is lost, there would be an increase bring this out clearly, while we have realized there was an 15 12 in food supply and he didn't speculate as to where that 16 error affecting our conclusion about Twin and Java land 13 equation would come out. The conclusion that there was sufficient habitat at bridging, this does not affect Negit Island land bridging. 14 17 18 We also have been made aware that our assumption 15 19 about the depth of water at which a coyote would cross was 16 as far as the habitats. That's where those acreage numbers 20 probably not appropriate. We had assumed a coyote could 17 came from, not Mr. Page. cross, I believe, and Dr. Beedy might correct me if I am There were earlier questions of you about acreages of 21 18 Q 22 wrong, I believe it was .7 to about 1.7 meter depth. 19 certain kinds of habitats, and some of those questions 23 The evidence that Dr. Beedy referred to this summer 20 related to wetlands or riparian type habitats. 24 was that coyotes crossed a deeper expanse of water, although 21 Α Yes. And would it be fair to say that not all acres of 22 Q 25 it was perhaps not a long expanse. So, to make a long story 00205 wetted land habitats are of the same value? 23 1 short, the conclusion about Twain and Java being land 24 Α Oh, certainly, that would be a fair statement. bridged under this 6377-foot alternative during an extreme 2 25 Q And can you describe reasons why they might not be of 3 drought, will probably change. 4 It may, in fact, turn out that the land bridging is 1 equal value, one acre of habitat here versus one acre of 5 more frequent than we had stated in the Draft EIR given the 2 habitat there? ability of coyotes to cross deeper waters, notwithstanding 3 Mr. Canaday, are we comparing lake marsh habitat to, 6 Α 7 the fact that we overestimated the depth or the fall of the 4 say, riparian habitat? 8 lake by a foot, but the ability of the coyotes to cross the 5 Q No, we are saying a lake fringing wetland of 6 9 shallow water may more than compensate for the error. prediversion value or prediversion conditions versus a lake 10 As far as the earlier conclusion that during the so-7 fringing Wetland of post-diversion scenarios. The first question would be, are they necessarily the 11 called normal droughts, the more frequent drought periods, 8 where Negit Island land bridges, there was no error there. 9 same value? 12 10 My answer to that is they probably are not the same 13 Again, the ability of coyotes to cross deeper water may mean Α again that that estimate should be increased. In other 11 value. 14 12 words, the effect would be more frequent than we said, so I Q And some reasons they may not be? 15 believe that the situation of the 6377-foot alternative will 13 Okay. I testified earlier today that I felt probably 16 A include probably more frequent episodes of disruption of 14 the first order of effect, the most important factor was the 17 gull colonization than stated in the Draft EIR, if you 15 18
- follow me, and I am very sorry if you didn't. 19

- 00206

- the numbers and the calculations we have made -- he did not

- eastern part of the lake which would attract insects, which
- probably would provide new sources of food for snowy plovers
- 6410 was based on the geographic information system analysis

- 00208

- presence of the freshwater and brackish water lake fringing
- 16 wetlands, and these not only provide bird and other wildlife

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17	a source of freshwater for drinking and hathing but also	14	MP CASADAV: A Linet wanted to add Mr Horrow	
10	a social di incentivatel foi ultriking bila batting, but also,	14	IVIA. CASADAT: A I just wanted to aud, IVIT. Herrera,	
18	to roost on and get away from the high wave action of the	15	based on Mr. Jokerst's conversations about the 300 cfs	
19	lake which happens almost every afternoon I have been out	1 16	damaging flow thresholds, and at the advice of your staff	
20	there. It is pretty windy and this would be an opportunity	17	we desided to pose that as a condition in LAAMP, so you will	
č	diological sector windy and this would be an opportunity		we decided to pose that as a condition in LAAMF, as you will	
1	for birds to get away from that.	18	recall on export volumes, 300 cubic feet per second, so that	
22	So the cover values of cattails or tules, or whatever	1 19	we wouldn't be creating alternatives that unnecessarily	
22	could be similar no matter what but it's the accordation	20	demand the upper Owens Biver	
20	could be antinar no matter what, but it's the association,	20	damaged the upper Owens river.	
24	the mosaic of freshwater, brackish Water, open-ponded areas.	21	Q Now, I am assuming we will go back and utilize the	
25	What you have got out there now are vast areas of	22	Fish and Game recommendation of 200 cubic feet per second in	
		22	That and Carrier reconstruction of 200 cubic feet per second in	
	00209	23	future analysis here with the EIR?	
1	guite uniform looking habitat. When you get out there	24	A That is what we offered to do right.	
2	there's all a solutions and successful states of the solution		A There is the control of the second state of	
2	there's enther sedge meadows and around Simon Springs is a	25	u I hank you. I have one last question here to add. In	
3	good example, I spent a lot of time walking there, or dense		00212	
Δ	cattail associations, and there is some water. It's kind of	1	your evaluation of the waterfour populations at mrs 1941	
		1 1	your evaluation of the waterrow populations at pre-1341	
5	moist when you walk around, but you don't find big open	2	scenarios, did you evaluate or look at the effects of some	
6	areas, and that's the real trigger there, the thing that the	3	of the sport or marketing-type hunting effects on waterfowl	
7	hirds really soon to be focusing or and where I did as		a substantiation of the term of the second and an an analytic and a second s	
	birds really seen to be rocusing of- and where I did see	1 4	or what effect that may have had on populations or location	
8	birds, blackbirds, was a little small pond areas i	5	of populations in the Mono Basin?	
9	mentioned, the small channels that seemed to go out through	6	DB BEEDY: A Mr Herrera I didn't have enough	
10		I		
10	the marshes there, and I did find a few ducks sometimes.	1 /	information to make that kind of determination based on	
11	MR. CANADAY: That's all I have. Thank you.	8	existing data: although I can tell you there was	
12	MR DEL PIERO: Mr. Horroro	0	substantial soft it market hunting as not but it uses the	
12			substantial, call it market hunting of hot, but it was the	
13	EXAMINATION	10	major recreational activity certainly, and people talked	
14	by MR. HERRERA:	1 11	about the only had limit being how many ducks you wanted to	
1 5	O Livet bare a courte of brief questions. I believe	1		А
15	C I just have a couple of phet questions. I believe	1 12	carry, and so there was a substantial amount of that going	10.
16	this is directed to Mr. Jokerst, or whoever can answer it.	13	on.	
17	Farlier there was a question involving the upper	114	As far as how that influenced the ducks at the loke	
10	Land there was a question involving the upper		As fail as now that mindenced the ducks at the lake,	
18	Owens River in which you stated there was the addition of	15	I really don't have any way to judge that at this point.	
19	water by LADWP had caused erosion problems or to the	16	know that Mr. Dombrowski's ponds that he watered	
20				
20	riparian vegetation, and I believe some breakdown of the	17	with water from Rush Creek clearly got high levels of use	
21	banks to that effect.	18	and they were hunted regularly, so my impression is there is	
22	Do you have any knowledge or can you expand a little	10	probably a fair amount of turnover and the hirds just kent	
22	bo you have any knowledge of can you exhand a little	13	probably a fair amount of turnover and the birds just kept	
23	bit on what those were that those conditions started to	20	coming in there because it was one of the main sources of	
24	occur? Do you have any ideas?	21	freshwater around there. I have heard that from other	
25	AD INCERT. A These set two sources of information	1 22		
20	MR. JORCHST: A There are two sources of information	22	people.	
	00210	23	l also heard anecdotal information from Kent	
1	upon which to have that As stated in the FIR I talked	24	DeChambery He told me when he was a how out that	
•	upon which to base that. As stated in the Lin, I taked	27	Dechambeau. He told the when he was a boy out there, that	
:	with most of the landowners on the upper Owens River, owners	25	the ponds on the family ranch, that you could basically just	
3	or managers, and they, at the time we were gathering		00213*	
-	information for the EID, they protect uniformly arread that	-		
Λ			ait thata and aboat duala and thay atil kant aanaing lt	
4		1	sit there and shoot ducks and they still kept coming. It	
4 5	flows in exceedence of 300 cubic feet per second were	2	sit there and shoot ducks and they still kept coming. It was the only place to sit down and that there were just so	
4 5 6	flows in exceedence of 300 cubic feet per second were damaging and of great concern to them, and they were quite	1 2 3	sit there and shoot ducks and they still kept coming. It was the only place to sit down and that there were just so many ducks. They just kept coming. That's what I heard	
4 5 6 7	flows in exceedence of 300 cubic feet per second were damaging and of great concern to them, and they were quite	1 2 3	sit there and shoot ducks and they still kept coming. It was the only place to sit down and that there were just so many ducks. They just kept coming. That's what I heard.	
4 5 6 7	flows in exceedence of 300 cubic feet per second were damaging and of great concern to them, and they were quite happy to see the temporary cap on flows instituted because	1 2 3 4	sit there and shoot ducks and they still kept coming. It was the only place to sit down and that there were just so many ducks. They just kept coming. That's what I heard. MR. HERRERA: That concludes my questioning. Thank	
4 5 6 7 8	flows in exceedence of 300 cubic feet per second were damaging and of great concern to them, and they were quite happy to see the temporary cap on flows instituted because of that concern.	1 2 3 4 5	sit there and shoot ducks and they still kept coming. It was the only place to sit down and that there were just so many ducks. They just kept coming. That's what I heard. MR. HERRERA: That concludes my questioning. Thank you.	
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Could I add one more brief thing? 11 barren habitat there would be within a reasonable distance, 8 A say, half a mile or more, or less maybe, of the lakeshore, 9 Q Yes. 12 10 Α There are portions of wetlands at both sides that 13 although snowy plovers don't always necessarily nest near 14 water, they often do. 11 have been there for quite a long time. 15 And it wasn't until I got to the no-diversion 0 Were those two wetland areas historical wetlands? 12 16 alternative that the lake would rise to a point -- there 13 Α Yes sir Q 14 You indicated that a portion of the alkali flats, at 17 were several calculations. I assumed about 15 acres times 15 18 the 1988 population, and we do have some evidence that these least a portion of it, could be considered a wetland; is 19 kinds of lake transgressions and regressions are something 16 that true? 20 that the snowy plover can tolerate. 17 А Yes, sir, according to the definition that the U.S. 21 Basically, Mr. Page and his associates did studies in 18 Fish and Wildlife Service uses. Other regulatory the late seventies, went back again in the late eighties definitions may not include those as wetlands. 22 19 23 after that period of lake increase and decrease, and the 20 0 Is that the same definition used by the Army Corps of populations, according to the accuracy of his census method 24 21 **Engineers?** 22 No, it is not. 25 had not changed in that period of time. Α 23 Q Do you want to explain the difference? You and I may 00215 1 So, I guess what I am saying it's not a population 24 be the only two in the room that know the difference. effect. There's lots of aikali flat sandy areas that 2 25 А Well, maybe only you. 3 would be covered, but would have an effect on snowy plovers. 00218 1 4 Based on that calculation, I would say not, and the ٥ Go ahead. 5 Fish and Wildlife Service, I believe, and the Forest Service 2 The Corps of Engineers requires that you have Α 6 undertook a similar analysis of the same data and made the 3 positive indicators above three parameters to consider a same conclusion. site a wetland in the Corps' jurisdiction. You must have a 7 4 8 MR. SMITH: Thank you. 5 prevalence of hydrophytic vegetation, water-loving plants, The no diversion, I want to make that clear, I did 6 in other words; you must have wetland hydrology and you must 9 Δ find an effect. With the no diversion, as far as we can 10 7 have hydric soil. tell, that habitat could become limiting, and that may be 8 The Fish and Wildlife Service, in contrast, requires 11 9 12 one of the reasons that Dr. Grinell and Joseph Dixon didn't that you only have positive indicators of one of those three parameters to consider a site a wetland. For that reason, 13 report the snowy plover at Mono Lake when they visited it in 10 14 the nineteen teens and whatever. 11 large portions of the alkali flat qualify under the Fish and As far as I can tell from reading their notes, they Wildlife Service as a wetland because the water table is out 15 12 16 never visited the east side of the lake, so it's 13 or near the surface for a substantial portion of the year. problematical that they looked in the right areas or not, 14 Other than that, it meets no other requirement for 17 0 but again, it is likely the population was lower there at 15 18 wetland? that point because the lake had been up at 6428 feet as 16 There are small areas on the alkali flat where we are 19 Α recently as 1919. 17 seeing some vegetation established and in the broadest sense 20 MR. SMITH: Thank you. 21 18 those might meet Corps regulatory requirements. 22 MR. FRINK: Staff has no other questions. 19 0 These are hydrophytic? 23 MR. DEL PIERO: Any questions by Board members? 20 А Yes, sir, very limited, and the vegetation is very 24 I have got three. Let me ask, is there any recross? 21 sparse where that is occurring. 25 One recross. 22 a Was that area historically wet? 00216 23 Historically prior to --Α Historically. 1 MR. DODGE: I have about two minutes. 24 a 2 EXAMINATION 25 It was under the lake, so, therefore, it would meet Α by MR. DEL PIERO: 00219 3 Two questions, the same question, different areas. 1 Fish and Wildlife Service's definition as a wetland, not the 4 α How old are the wetlands at Wilson Creek? MR. JOKERST: A That, unfortunately, is out of my 5 Corps, because there would be no vegetation. 2 6 MR. DEL PIERO: I just wanted to get that all 3 study area. I will pass the mike. 4 clarified so we knew exactly what we were talking about in 7 MR. CASADAY: A The same as passing the buck as far 5 terms of definition. 8 Okay, recross, Mr. Birmingham. 9 6 as I can see. 10 MR. JOKERST: A Oh, Wilson Creek, excuse me. What 7 **RECROSS-EXAMINATION** 8 by MR. BIRMINGHAM: 11 portion of the creek are you referring to? 12 The ones that are closest to the existing lake. 9 Q First, I would like to talk about birds, and the a There is a tremendous amount of -- well, relative to 10 Western snowy plover and we want to be specific that we are 13 Α 14 a lot of wetlands on that Mono Lake shoreline, there's a lot 11 talking about the inland Western snowy plover, which you of freshwater moving through the Wilson Creek delta towards said is a candidate species for listing under the Endangered 15 12 the lake which increases the speed with which the salty lake 13 Species Act; is that correct? 16 14 DR. BEEDY: A bed sediments can be leached and induce the re-establishment Yes, category 2. 17 15 Q I'm going to ask you assume hypothetically the 18 of vegetation. 19 And I suspect that the habitats nearest to the lake 16 Western snowy plover is listed as either a threatened or 20 are very young because the lake had risen and fallen in the 17 endangered species. 21 recent past. I am not quite sure what the dates are. 18 Isn't it correct that raising the lake level would 22 a In the seventies, how high did the lake get? 19 then constitute a take of that species under the Endangered 23 DR. BEEDY: A About 6382. 20 **Species Act?** MR. JOKERST: A Between 6382 and where we are now, MR. DODGE: A Objection, calls for a legal 24 21 25 which is around 6374, I would say that those habitats are 22 conclusion. MR. DEL PIERO: I'm afraid that's true. 00217 23 essentially contemporary as they have become exposed. Maybe 1 24 Am I not to answer the question? Α 25 MR. DEL PIERO: You don't have to answer that 2 there's a two- to five-year time lag between when they 00220 3 became exposed and the vegetation established. 1 4 Q At the County Park, how old are they? auestion. 5 Likewise, about the same. The same process is at 2 MR. BIRMINGHAM: Q Are you familiar with what Α work there. 3 constitutes a take under the Endangered Species Act? 6

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- 7 Q You testified --
- Page 38

Yes, as defined in Section 9 of the Act, I am

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5 familiar with what the take is.	2 MR. DEL PIERO: Do you know the answer?
6 Q Is it your understanding that destruction of habitat	3 DR. BEEDY: A I don't know the answer to that, why
7 constitutes a take?	4 we did not include that.
MR. DUDGE: Same objection.	5 MR. DEL PIERO: Did you do that work?
	6 A I didn't do the mapping. 7 MB DEL DIERO: The questions are appropriate to be
11 is it your understanding?	7 Min. DEL FIERO. The questions are appropriate to be
12 A is it my understanding that	9 MR BIRMINGHAM: I believe Mr. del Piero Dr. Beedy
13 MR. BIRMINGHAM: Q That the destruction of habitat	10 responded to Mr. Thomas's questions in this area
14 of endangered species constitutes a take under the	11 Q   will ask for purposes of the record, did you
15 Endangered Species Act?	12 respond to Mr. Thomas's questions in this area? Again, the
16 A Yes, under the Federal Act, that would be a true	13 correct response would have been apparently you don't know
17 statement. Under the State Act, I don't think you can get a	14 as opposed to the answers that you gave him.
18 take for just you have to have a carcass in hand under	15 MR. THOMAS: Objection. It was Mr. Jokerst.
19 the State Act.	16 MR. DEL PIERO: Mr. Birmingham, that's an
20 Q Under the Federal Act, is that not true?	17 inappropriate question.
21 A Idon't know. 22 MP DEL DIERO: W/hother it is true or not he is	18 MR. BIRMINGHAM: Q I will direct the questions to
22 WIN. DEL FIERO: Whether it is true of hot, he is	19 Wir. Jokerst in Wir. Thomas represents that was the individual
23 asking what your understanding is. You are answering in 24 your capacity as a non-lawyer	20 who responded to the question.
25 A I will say that is what my understanding is	21 INIT. SOLCHOT. A Could you restate the question,
	23 0 Is it correct that you did not include the DeChambeau
1 MR. DEL PIERO: This is the appropriate time for you	24 ponds in your analysis of existing habitats because they are
2 to respond as succinctly as possible. I have asked you to	25 artificially maintained?
3 do that before and I am asking you again.	00224
4 MR. BIRMINGHAM: Q In response to my question, you	1 A No, that's not correct.
5 referred to both the Federal Endangered Species Act and the	2 Q Isn't it correct that the ponds that were near Rush
6 State Endangered Species Act. My questions are limited to	3 Creek in excuse me, apparently there was a conference. I
7 the Federal Endangered Species Act.	4 wonder if I could ask what the conference was about.
8 And it has been your testimony that it is your	5 A I was elaborating on why that area was excluded from
9 Understanding that under the Federal Endangered Species Act	o the study. I would be happy to share that.
11 take?	7 Q Go aneau. 9 A The principal reason is that the DeChambaou pende
$12  \Delta  \text{That's my understanding}$	9 were located outside of the region that could be affected by
13 Q And in order to lawfully take a species under the	10 rise or fall of the lake level under the alternatives that
14 Endangered Species Act, it is necessary to have either an	11 we analyzed. That's the simplest explanation.
15 incidental take permit under Section 7 or Section 10 of the	12 Q Isn't it correct that the ponds that existed near
3 Act; is that your understanding?	13 Rush Creek prior to DWP's diversions, that served as duck
17 A Yes, that's my understanding.	14 habitat were artificially maintained?
18 Q So, if the snowy plover becomes listed, in order to	15 A Are you referring to the Dombrowski ponds?
19 raise the lake and destroy any of its potential nesting	16 Q. Yes, Iam.
20 habitats, it will be necessary to obtain an incidental take	17 A Yes, those were artificially maintained.
21 permit? 22 MR DODCE: Objection That does call for a land	18 Q Isn't it correct that approximately 48 percent of the
22 Min. DODGE: Objection. That does can for a legal	20 DP REEDV: A Liden't have good data on duck
23 Conclusion. 24 MR DEL PIERO: You can ston when there is an	20 DR. BEEDT. A Full that data available I don't have
25 objection.	22 good data on duck nesting   don't have that data
00222	23 available. I don't recall Mr. Dombrowski publishing or
1 The answer is that the objection is going to be	24 representing the nest counts.
2 sustained. Okay.	25 Q In response to a question that was asked of you by
3 MR. BIRMINGHAM: If you don't know the answer to any	00225
4 of my questions, it is perfectly okay for you to say, I	1 staff, that I asked the reporter to mark, I wonder if we
5 don't know the answer, and I would prefer that as opposed to	2 could go back and ask the reporter to read the question and
6 a speculation.	3 answer that I asked to be marked?
7 Q Let's talk about ducks. Now, in response to a	4 WR. DEL PIERO: Certainly.
9 analysis of babitat values the area around DeChambeau Creak	6 answer:
10 and I believe you said you didn't include it because that	7 Ouestion: Thank you I have one last question
11 was artificially maintained.	8 here to add. In your evaluation of the
12 is that your testimony?	9 waterfowl populations at pre-1941 scenarios,
13 A I am trying to recall whether we included DeChambeau	10 did you evaluate or look at the effects of some
14 Pond as part of the existing lakeshore.	11 of the sport or marketing-type hunting effects
15 MR. DEL PIERO: Do you know?	12 on waterfowl, or what effect that may have had
16 A I don't know.	13 on populations or location of populations in
17 MR. DEL PIERO: Who knows?	14 the Mono Basin?
18 MR. JOKERST: A I do.	15 DR. BEEDY: A Mr. Herrera, I didn't have
19 MR. DEL PIERO: Answer the question.	16 enough information to make that kind of
20 A May I check the map to confirm briefly?	19 Least tell you there was substantial will be
21 WIK. DEL PIERU: Certainly.	10 I can tell you there was substantial, call it
3 MR DEL PIERO: Proceed	20 recreational activity certainly and people
4 MR. BIRMINGHAM: O Was it your answer Dr. Reedy	21 talked about the only bag limit being how many
25 that you did not because those ponds were artificially	22 ducks you wanted to carry, and so there was a
00223	23 substantial amount of that going on.
1 maintained?	24 As far as how that influenced the ducks at

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25	the lake, I really don't have any way to judge	22	MR. DEL PIERO: Fish and Game are wincing in the
	00226	23	back.
1	that at this point.	24	A There might have been no limit, I don't know.
2	I know that Mr. Dombrowski's ponds that he	25	MR. BIRMINGHAM: The statute of limitations has run.
3	watered with water from Rush Creek clearly got		00229
4	high levels of use and they were hunted		You don't need to worry.
5	regularly, so my impression is there is	2	MR. DEL PIERO: There are tears falling near the back
6	probably a fair amount of turnover and the	3	door.
7	birds just kept coming in there because it was	4	MR. BIRMINGHAM: Q And perhaps the reason there
8	one of the main sources of freshwater around	5	aren't as many ducks today as there were in the thirties,
9	there. I have heard that from other people.	6	and forties and fifties is because people were shooting 18
10	I also heard anecdotal information from Kent	7	of them in one shot.
11	DeChambeau. He told me when he was a boy out	8	ls that possible?
12	there, that the ponds on the family ranch, that	9	A I think there was certainly a problem of people
13	you could basically just sit there and shoot	10	taking more ducks than they could probably use. My
14	ducks and they still kept coming. It was the	11	grandfather might have been one of those guys.
15	only place to sit down and that there were just	12	Q Well, we have established culpability.
16	so many ducks. They just kept coming. That's	13	Early on in your testimony concerning ducks and use
17	what I heard.)	14	of freshwater habitat around Mono Lake as it exists today,
18	MR. BIRMINGHAM: I believe in the answer that we just	15	you referred to the ponds, I believe, at DeChambeau Creek;
19	had read back you referred to anecdotal information; is that	16	is that correct?
20	correct?	17	A Not at DeChambeau Creek. It would have been I
21	A Yes, personal recollections from people rather than a	18	guess DeChambeau Creek does flow near there. I was talking
22	published source.	19	on the ranch headquarters. It's where the buildings are.
23	Q And it is correct; isn't it, that that anecdotal	20	there are some ponds.
24	information that we just recited and reread evidences one of	21	Q And I believe you said that was the only open water
25	the problems with anecdotal information, and that is it may	22	that you were aware of as it exists at Mono Lake today?
20		23	A No I mentioned also that there is some open water
1	not be accurate	24	at the mouth of Wilson Creek, about a half-acre, and I don't
2	A I don't know where you get that conclusion	25	know the size of the DeChambeau pands, but they are there
2	A You said Mr. Kent DeChambaau told you that you could	23	Know the size of the Dechambeau points, but they are there.
3	bunt on his family ponds and the hirds would just keep	1	O lep't it correct that currently today, there's a
- <del>*</del>	num on mis rammy poinds and the bilds would just keep		freehunter need at the mouth of Lee Vining Creek?
5	coming in, and i believe your words were because it was the		A You would have to direct that quantize to Mr.
5	only place to sit down.		A fou would have to direct that question to wir.
	Now, we know that the Dechambeau ponds were not the	4	Jokerst. If there is one, it is not very large.
8	only place to sit down, and when you said sit down, i		U Wir. Jokerst, Isn't it correct there is a treshwater
9	presume you meant it is not the only place for ducks to sit	l S	pond at the mouth of Lee Vining Creek?
10	down in the Mono Basin.		MR. JOKERST: A T'm not aware of a pond at the mouth
11	Isn't that correct?	8	of Lee Vining Creek unless you are referring to the actual
12	A I didn't mean to imply that. You may have inferred	9	creek channel itself and the embayment that is formed where
13	that from what I said. What I did say was that according to	10	the creek channel enters the lake. That would be the only
14	his recollections, and I did interview DeChambeau	11	one I would be aware of, but nothing that sits adjacent to
15	personally, and I have seen ducks in these kinds of	12	the channel.
16	densities myself, so he talked about the fact that there was	13	Q So you are not aware of any pond that is adjacent to
17	really literally no open water space in the ponds even	14	the stream channel on Lee Vining Creek?
18	though he was actively hunting there; and when he was	15	A No, sir.
19	hunting, ducks would continue to come to these ponds.	16	Q With respect to this Table D-5 indices, acreages and
20	And I didn't mean to imply they were the only source	17	wildlife habitat values under prediversion and 1991
21	of duck habitat around the lake. That would certainly be an	18	conditions, Mr. Thomas asked you a number of questions about
22	incorrect statement. J. perhaps, mis-implied that.	19	this Table D-5. In fact, on the blow-up that's been marked
23	Obviously, we talked about other habitats around the	20	next in order by the Department of Fish and Game, he placed
24	lakeshore that had similar duck use	21	some writing on the table
25	0 So Mr DeChambeau didn't tell you it was the only	22	Now in response to some questions. I believe that
20		23	Was you Dr. Beedy in response to some questions
1	nlace for them to sit down?	24	concerning wildlife habitat unit values you said that the
2	A No. I think that was my inference that I made there	25	hasis of let me do to my notes for a moment and kind of
2	A No, I think that was my interence that I have there.	25	Dasis of let the go to my notes for a moment and kind of
1	leadized area there were some small needs. If you so down	1	find it0023 (
4 E	there, there's some nonde there and that's accentially where		Vou said that the energies righness was the basis of
5	the birds were		to a salu that the species nonness was the basis of
0	une birus were.		the rating system for underent lake levels; is that
/	a some of the anecdotal information that you relied on		DD DEEDVI A It was the basis for a deviating M/III
ð	m analyzing ducks in the prediversion period was that		UR, DEEDT: A IL Was the basis for calculating VVM
3	people could bag their limit with one shot.	^o	
10	is that reported in the Draft EIK?		when you say species richness, what do you mean by
11	A Yes, it was, Mr. Birmingham.	8	
12	U vvnat was the limit.	9	A vvnat I mean by that is the number of species observed
13	U vvell, again, I referred to the limit as something	10	in a nabitat.
14	I don't know at what time, whether it be the thirties or	11	Q The different species?
15	forties, my recollection was somewhere around 20 birds.	12	A Different species ranging from mammals to birds.
16	Q Do you think it is reasonable that regardless of the	13	Q And the more species, the higher the value?
17	abundance of ducks that you could bag 20 birds with one	14	A Yes. What we did in terms of this calculation, we
18	shot?	15	took the total species observed in the study area and then
19	A Yes, I do. I have actually seen my grandfather in	16	made a fraction out of, let's say cottonwood-willow, what
20	the early fifties shoot I don't know if he got 20, but he	17	proportion of those were seen in the cottonwood-Willows, and
21	got 18 ducks in one shot.	18	that's the WHI value. So, a higher number of species would

U U

19	indicate a higher WHI value, that's correct.	16
20	Q Earlier when you were answering Ms. Goldsmith's	1 17
21	questions about Caspian terns, you were talking about terns	18
۰.	species richness doesn't apply to terns?	20
-4	A They were included in this analysis. You can look in	21
25	the table, I guess it's this Table D-4. I'm pretty sure	22
		23
2	the nade on nade 2 of 5 you will see Cashian tern was	24
3	indicated as one of the species.	25
4	Q So, notwithstanding your earlier answers to the	1
5	questions by Ms. Goldsmith is species richness and	2
7	wildlife habitat unit values, you would concur, wouldn't	4
8	you, that the analysis of rising lake levels on the habitat	5
9	of that species is something that might be analyzed in an	6
10	Environmental Impact Report that evaluates the impacts of	
- 12	A As I testified to Ms. Goldsmith, I wouldn't agree	ŝ
13	with that statement because there was no basis for including	10
14	it. It is important in terms of overall analysis, but if we	11
15	are going to do that, then we would probably have to analyze	12
17	Q Again, you said the Caspian terns weren't analyzed be-	14
18	cause Caspian Terns are not limited in their range; is that correct?	15
19	A That is one of the reasons.	16
20	Q Isn't that true of California guils?	
22	distribution through the Western United States, basically in	19
23	Canada, whereas, the Caspian tern literally breeds all over	20
24	the world, so there is a difference there, and also, the	21
25	California gull species is of special concern.	22
1	Q My question is, the California gull, it is not	24
2	limited by its habitat, is it, currently throughout its	25
3	range?	
	A I am not sure what you mean by the question.	
6	gulls have been expanding their population throughout the	3
7	Western continent of North America and, in fact, new	4
8	colonies have been established?	5
9 10	Q And isn't it correct that in some places California	7
11	gulls are considered a nuisance to such a degree that there	8
12	are State programs to eliminate birds?	9
13	A I believe that they are hazed off certain,	10
15	to be most concentrated. They are not only California	12
16	gulls, but also, the white-headed gulls, or most of them	13
17	during that period.	14
18	But that's generally true, that they have increased	15
20	Q And, in fact, the State of Utah has a program to	17
21	reduce the population of California gulls at the Great Salt	18
22	Lake; isn't that correct?	19
23	A I wasn't aware of that program. O Mow while we are talking about California gulls we	20
25	have had lots of questions about the effect of rising lake	22
	00234	23
1	levels and lowering lake levels. Let's just talk about	24
2	Since 1979, Mono Lake has been below elevation 6375	[∠]
4	for a good percentage of the time; isn't that correct?	1
5	A It depends on which year. Certainly we can look at	2
6	the chart, but that's certainly true in many years.	3
/ 8	Mono Lake was below elevation 6375?	5
9	A Let me look at the chart here. Yes, that appears to	6
٠,	be true from the chart.	
,	Q The same thing is true with respect to 1980, '81 and (82) isp't that correct?	8
.∠ 13	A Yes.	10
		1.7

- 14 Q The level of Mono Lake was below 6375 and then in
- 15 1983, the level of Mono Lake rose above elevation 6375 and

- 16 it remained above elevation 6375 until 1990; is that
  - / correct?
  - A Yes. O And since 1990, the
- 19 Q And since 1990, the elevation of Mono Lake has been
- 0 below elevation 6375?
- 21 A Yes, since 1990.
- 22 Q Now, during that time from 1979 through the present
- time, 1993, the breeding population of gulls at Mono Lake

haw remained stable or has increased; isn't that correct? The number of total adults has, but that's an Α 00235 incomplete analysis of the question. Q Well, my question is during the period of time from 1979 through 1993, the population of California gulls has remained stable or has increased; isn't that correct? MR. DODGE: Mr. Chairman, as I have listened, this is all well beyond the cross-examination of any of us, and I don't think this is proper recross-examination. MR. DEL PIERO: Mr. Birmingham. MR. BIRMINGHAM: Mr. Dodge went into this area to a significant degree and I think it certainly relates to questions that were asked of this witness by Mr. Dodge. MR. DEL PIERO: Mr. Dodge. MR. DODGE: I respectfully disagree. I didn't ask any questions about the population of breeding gulls from 1979 to 1993. It is beyond the scope of cross-examination. MR. FRINK: Mr. del Piero, the Board's regulations allow for cross-examining a witness on any matters within his knowledge rather than whether it was within the scope of direct examination or not. MR. DEL PIERO: Thank you very much, Mr. Frink. MR. BIRMINGHAM: Thank you, Mr. Frink. MR. DODGE: Thank you very much. MR. BIRMINGHAM: This will be my last question. Q Isn't it correct that since 1979, the population of California ducks at Mono Lake, breeding gulls, has remained 00236 stable or has increased? That's a true statement, restricted to the adult gulls, that's right. Q I'm about to violate some fundamental rules on crossexamination and I want Mr. Pollak to pay attention, in fact, I want Mr. Pollak not to pay attention. I've got some questions about your personal history. I don't know the answer to them, so I am violating a. fundamental rule. MR. DEL PIERO: This is in regard to his professional expertise? MR. BIRMINGHAM: His personal experience, Mr. del Piero. MR. DEL PIERO: Okay. I want to be sure you don't get too far afield. MR. BIRMINGHAM: No, we won't. Q You indicated you were present in the Mono Basin in the mid seventies when gull counts were taking place. I believe you referred specifically to 1976; is that correct? MR. POLLAK: A Yes, that is a true statement. 1 didn't live there then, but I was there visiting. Q You were visiting there. During the period of the late seventies, how frequently did you visit Mono Lake? Five or six times a summer. 0 Do you know an individual or did you know an 00237 individual by the name of David Gaines? Α Oh, yes. Q Did you have a personal relationship with Mr. Gaines? I knew David professionally and I knew him as someone Δ that was -- all of the people that enjoy birds, we knew each other. Q Would it surprise you if someone in the Owens Valley or the Mono Lake area, Eastern Sierra, described you

- 9 as a very good friend of Mr. Gaines?
- 10 MR. DEL PIERO: Excuse me, Mr. Birmingham, I want you
- 11 to tell me what relevance that has before that question is
- 12 answered. It better be a real good answer.

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13	MR. BIRMINGHAM: It has to do with personal bias or	10	photo, but certainly, not all of it.
14	lack of objectivity, and goes to the witness's objectivity,		MR. DEL PIERO: Mr. Birmingham, one more question and
15	Mr. del Piero, and again	12	your time is up.
16	MR. DEL PIERO: Wr. Birmingham, I have afforded you a	13	MR. BIRMINGHAM: May   extend that to two, wr. del
1/	lot of latitude, but not that much latitude, so let's move	14	MP DEL DEDO: Mar
18	on to a different topic.	10	MR. DEL PIERU: Yes.
19	WR. BIRMINGHAMI: I will withdraw the question.	17	the diversions by the City of Lee Angeles at during the
20	Q Inere was testimony, I believe it was wir. Jokerst,	10	the diversions by the City of Los Angeles of during the
21	About take minging tagoons. Is that correct, fvir. Jokerstr	10	penod phor to diversions, there were 200,000 sheep that
22	IVIR. JUNERSI: A res, sir.		
23	Q And the lake fringing lagoons let me state it	20	A i can t recail the number, but I know there was a
24	differently. Isn't it correct that there currently are lake		Substantial amount.
25	tringing lagoons that are forming around Mono Laker	22	Q Pernaps the author of the land use section could
	00238	23	respond to that question better.
1	A fes, sir.		wh. Inolis: A libelleve at times there were, j
2	Q And at the existing level of Mono Lake, isn't it	20	don t know exactly when.
3	correct that those lake innging lagoons will continue to		OU24
4	expand in size?		Quintow the Drait Ein concluded with respect to the upper
5	A fou said at the present. Could you repeat that part		the unner Owene Velley as enneged to the Mane Resin
7	again?		the upper Owens valley as opposed to the work basin,
	U At its current elevation, isn't it correct that the	4	decline and extent of willow comb in the wrong Owen Diver
8	lake fringing lagoons that are forming will continue to		accine and extent of willow scrub in the upper Owens River
3	expand in size?		area also because they trample and consume seedings and
10	A l'don l'agree with that statement.	1 %	Mature plants.
10	U Do you know approximately now many acres of lake		Now, If there were 200,000 sheep grazing in the Mono
12	A Ma second in the SIP of the point of reference	10	asin, couldn't the same observation be made about the
10	A vve recorded in the Erk at the point of reference	11	They updoubtedly had some impact on the vegetation
14	condition about one acre of lake integring lagoon. This	1 1 2	MP PIPMINGHAM, Thenk you
15	excluded lagoons that were ephemeral, highly intermittent,	12	MR. DEL DERO, Thenk you were much
10	and only included lagoons that from our judgment were	14	Mr. DEL FIERO: Thank you very much.
10	O Sincily Lyould like to talk a little bit about	15	MP. THOMAS. In light of the hour we will need
10	C Finally, I would like to tak a little bit about	10	MR. THOMAS. In light of the hour, we will pass.
13	A Could I prese these questions		MR. DODGE: Will Mr. Coordov be on tomorrow's nanol?
20	A Could rexpand a dify bit on that previous statement?	10	MR. DODGE. Will Wr. Casaday be on tomorrow's panely
21	4 I sporesists that	10	MR. FRINK. 165, 16 Will.
22	A Tappreciate that.	20	wastation, but I would just as soon ask them tomorrow
23	formed on the choreline and chouse the ourrent lake level	20	MR THOMAS: Same for us one question
24	that can tran rainfall and wraff that is making toward the	21	MR. POOS COLLINS: Same approach
25		22	MR. ROUS-COLLINS: Same approach.
1	lake and at certain times of the year let me add these	23	MS SCOONOVER: No questions
2	are twicely your percey impoundments where the water will	25	MB. DEL PIERO: Liplace Libear from comeone else
2	be trapped as it is flowing downhill towards the lake	25	
4	These same features can intercent aroundwater when	1	staff_anything?
Ē	the groundwater levels are high enough. These features only		Mr. Canaday, before everybody starts jumping up and
6	impound water on a very enhanced basic and they are highly	2	taking off you need to go over the December dates that have
7	tied to the climate that either results in precipitation or	4	been identified for continuance of the bearing
ģ	temporary elevation of groundwater levels	5	Everybody needs to nav attention to this for their
ă	They are very small features. They are very narrow	Â	schedules nlease
10	and they are very enhemeral, and thus we didn't include		MS CAHILI Mr. del Piero Mr. Birmingham hasp't set
11	them. We didn't want them it would be apples and oranges	l á	forth the order of his witnesses
12	to include them in the assessment and analyze them on the	a a	MR DEL PIERO: I'm going to get to that
12	same basis as the larger more nermanent langons	10	MR CANADAY: The following dates have been set or
14	0 Mr. Casaday, I believe that Mr. Roos-Collins asked	11	calendared for continuation of this particular hearing.
15	You some questions regarding vegetation and in particular	12	This is for the month of December We would be
16	be referred to Figure 6 from the direct testimony of Babert	13	starting on Thursday, the 2nd, continuing on Friday the 3rd.
17	Reschta and in response to the question you compared aerial	14	The next dates are the following week on Monday the 6th.
18	photos taken in the early forties with mans that you had	15	Tuesday the 7th, Wednesday the 8th until 3:00 p.m. These
19	prenared at the point of reference which was 1989; is that	16	are the only dates we have officially calendared
20	correct?	17	There may be alternate dates or additional dates
21	MR CASADAY: A That's correct	18	depending on Mr. del Piero's schedule for Monday the 13th
22	O Now the aerial photos that you referred to with	19	and Tuesday the 14th
23	respect to prediversion conditions were photos that	20	MB. DEL PIERO: If we aren't done by then
24	denicted and I believe you said a mature cottonwood forest	21	MR. CANADAY: I'm hanging stockings up here.
25	approximately 300 feet in width: is that correct?	22	MR. DEL PIERO: And all wear a heard and red hat
	00240	23	Okay. Mr. Birmingham.
1	A That's correct.	24	MR. BIRMINGHAM: Yes. Mr. del Piero, my order of
2	Q Now, you were not able to determine from that aerial	25	presentation is based on a couple of assumptions that I will
3	photo the condition of the understory at the time the photo	1	00243
4	was taken: is that correct?	1	articulate, if I may.
5	A Not entirely. The understory underneath the canopy	2	The first is that we will begin our presentation
6	of a large tree; no.	3	tomorrow. I hope that is the case.
7	Q By understory, we are talking about the vegetation	4	MR. DEL PIERO: I think that is probably a fair
0	close to the ground; is that right?	5	assumption. Tomorrow afternoon, I would assume would be t
0			· · · · · · · · · · · · · · · · · · ·

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	MR. BIRMINGHAM: In that event, the order of	4		
8	witnesses would be as follows:	15		
9	First, we will present a panel of witnesses that	6	,	
10	consists of Donald Chanman and William Platts.	7		
1	We will then present the testimony of David Hanson			
	Thomas Hardy and Emil Machardt			
12	And then finally and Link Worklandt.	, s		
13	And then finally, with respect to stream issues, Dr.	10		
14	Robert Beschta.	11		
15	We have a number of witnesses who will testify on	12		
16	like issues and I presume this will start based on the	13		
17	assumption we will complete our stream testimony tomorrow	11		
10	and Fridey, and compressing on December 9, we would have De			
10	and Friday, and commencing on December 8, we would have Ur.	10		
19	John Melak testify. Dr. Melak is a professor at U. C. Santa	16		
20	Barbara.	17		
21	I am just informed that Dr. Melak is not available on	18		
22	Monday because he has commitments at the University of	19		
23	California Santa Barbara, where he is a professor	20		
24	MP DEL DIEDOL M/ban in he sucitable?	20		
24	MR. DEL FIERO: When is ne available?			
25	MR. BIRMINGHAM: Tuesday.	22		
	00244	23		
1	MR. DEL PIERO: Tuesday, the 9th.	24		
2	MR. BIRMINGHAM: We will begin with Dr. Jehl, then	25		
3	Dr. Kimmerer, and then probably assuming that takes us to		non	h
	Tuesday, D. Malek, Brien Tillemane, Jaka Bineennault, and		0000	,0
-	ruesuay, D. Melak, Bhan fillemans, John Finsonnault, and			
5	then Dr. Joseph Fedoruk.	2	STATE WATER RESOURCES CONTROL BOARD	
6	We would then have the testimony, it would be a panel	3	DIVISION OF WATER RIGHTS	
7	of Michael Deas, William Hasencamp and Dr. Richard Carson,	4	STATE OF CALIFORNIA	
8	and Dr. William Wade.	5		
ā	And then a negation Garald Gauge and Pruse Kushler	, a	a0a	
3	And then, a panel of Geraid Gewe and Bruce Ruebler.			
10	And then, a panel of Allan McFarlane, Michael	1 1		
11	Webster, and Arthur Tenako.	8	Subject: Amendment of City of Los Angeles'	
12	And that would complete the presentation of our	9	Water Rights Licenses for Division of Water	
13	evidence.	10	from Streams that are Tributary to Mono Lake	
14	You may have gathered from the number of witnesses	1 11		
16	that it is likely that we will request more than two hours		a0a	
10	that it is likely that we will request more than two hours	1 12	000	
16	to present our case in chief, but it is our hope that most	13		
17	of these witnesses can complete an oral summary of their	14	Held in	
8	testimony in less than 20 minutes. We will ask for	15	Resources Building	
.9	additional time with respect to a few of them	16	Sacramento, California	
20	MR DEL RIERO: Okay, Latime point out ladies and	1 17	ouoramonico, oumornia	
20	wh. DELTIERO. Okay. Let the point out, radies and			
21	gentiemen, on Friday of this week it may be necessary for us	18	000	
22	to break somewhat early in the afternoon. I am attempting	19		
23	to try and work it out, but I may have an appointment in a	20	Wednesday, October 27, 2993	
24	different part of the state at 5:30 in the afternoon, so I	21	9:00 a.m.	
25	am going to see what I can do in terms of airplane	22	VOLUME VI	
		22		
-1		23		
1	accommodations. It it doesn't work out, we may have to	24		
2	break somewhat early in the afternoon on Friday, which is	25		
3	one of those things, unfortunately.		0000	)0
4	I will know by tomorrow, so you all can at least have	1	i	
5	one day's advance notice in terms of arranging your	2	APPEARANCES	
ĥ	schedules.	1 2	Board Members:	
7	Veo eir Mr. Been Celline		MARC DEL RIERO Happing Officer	
~		1 7	MANU DEL HENU, REALING UNICER	
8	win. AUUS-CULLINS: SINCE I WATCH THE Gladiator show,	1 2		
9	I don't know what a tag team means. Would you explain that	6	MARY JANE FURESTER	
10	to me?	7	JOHN BROWN	
11	MR. DEL PIERO: The way I would like this conducted	8	JOHN CAFFREY	
12	is, unless someone requests in advance, rather than having	9	Staff:	
12	various attorneys back and farth; if one attorney is	1 10	DAN FRINK Counsel	
1.4	current to be taking on one particular area in terms of		IAMES CAMADY Environmental Specialist	
14	supposed to be taking on one particular area in terms of		JAINES CANADY, Environmental Specialist	
15	cross-examination of a panel, I would appreciate it if they	12	STEVE HERRERA, Environmental Specialist	
16	would get all their questions out up front, and then if	13	RICHARD SATKOWSKI, Engineer	
17	another attorney has a different area in terms of the panel,	14	HUGH SMITH, Engineer	
18	I would appreciate it if they got all their questions asked.	15		
10	and then if there are questions that are appropriate for	16		
10	and thory in there are questions that are appropriate for	1 17		
20	recross, mey are asked during recross as opposed to going			
21	tor cross-examination.	18		
22	I think that's about as clear as I can he.	19		
23	MR. ROOS-COLLINS: That's verv clear.	20		
24	MR DEL PIERO: Other than that ladies and	21		
		1.71		
3	gentlemen, we will look forward to seeing you tomorrow	1 22		
5	gentlemen, we will look forward to seeing you tomorrow	22		
5	gentlemen, we will look forward to seeing you tomorrow 00246	22		
5	gentlemen, we will look forward to seeing you tomorrow 00246 morning at nine o'clock, same time, same station.	22 23 24		
5 1 2	gentlemen, we will look forward to seeing you tomorrow 00246 morning at nine o'clock, same time, same station. (Evening recess)	22 23 24 25		
5 1 2 3	gentlemen, we will look forward to seeing you tomorrow 00246 morning at nine o'clock, same time, same station. (Evening recess)	22 23 24 25	0000	0

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