

NATIONAL MARINE FISHERIES SERVICE

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PUBLIC WORKSHOP )  
 )  
Re: Proposed Critical Habitat )  
Designation for the Threatened )  
Southern Distinct Population )  
Segment of North American )  
Green Sturgeon )  
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Thursday, October 16, 2008

9:00 A.M. - 3:30 P.M.

JOHN E. MOSS FEDERAL BUILDING  
650 Capitol Mall  
Sacramento, California

REPORTED BY: SANDRA L. HOPPER, CSR No. 7110

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A P P E A R A N C E S

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NOAA FISHERIES

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1 THURSDAY, OCTOBER 16, 2008, SACRAMENTO, CALIFORNIA

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3 MS. NEUMAN: Okay. So the purpose of today's  
4 workshop is to get some input from you all about our  
5 proposed critical habitat designation, but also to  
6 explain the process that we went through to arrive at  
7 our proposed critical habitat designation and to  
8 highlight some of the uncertainty that still exists  
9 and hopefully to come up with a list of priorities of  
10 what can be done between now and the time of our  
11 final critical habitat designation that will, first  
12 and foremost, conserve and protect the southern  
13 distinct population of green sturgeon and also not  
14 put undue economic stress on the areas where critical  
15 habitat designation has been proposed.

16 We said in our Federal Register Notice that  
17 we would hold a public hearing if anyone so  
18 requested. We did not receive any requests for a  
19 public hearing until Ellen sent a letter yesterday to  
20 our regional -- our assistant regional administrator  
21 requesting a public hearing. I'm pretty sure we will  
22 be able to do that. I'm not sure when it will be.  
23 And so we'll -- we'll have to figure that out, but  
24 let's view today as an opportunity to also have this  
25 discussion. We're calling it a workshop because we

1 didn't have a request for a public hearing. If we do  
2 this again, instead of "public workshop," I'll  
3 probably have "public hearing" slides. You know, we  
4 want that to be a fairly informal discussion.

5 I'm going to give a presentation that talks  
6 about how we got to this point in time, and then  
7 we'll open it up to a question-and-answer period. We  
8 have a relatively small group, so we'll probably all  
9 stay together. And we'll form a little NMFS panel up  
10 here with me, David, and Doug sitting up here and  
11 trying to field some of the questions that you all  
12 have for us. Then we'll have an official public  
13 comment period where we'll ask you to come up and  
14 state your name, and you'll be speaking to Sandy  
15 directly at that point, and you can sort of give your  
16 formal public comment, although, everything that's  
17 being said today will be recorded. So even our  
18 question-and-answer period, especially if we stay  
19 together in one group, will be a part of the public  
20 record.

21 So today I'll give some background on green  
22 sturgeon. Many of you may not need it, but some of  
23 you may. So we'll go through that briefly. I'll  
24 give some -- mostly definitions of what critical  
25 habitat is according to the Endangered Species Act.

1 I'm talking about the process that we use for  
2 developing the proposed critical habitat designation.  
3 I'll give a summary of what we ended up with and talk  
4 about some of our additional data needs and  
5 uncertainties.

6 MR. KLIMLEY: Melissa, would you like to use  
7 a pointer?

8 MS. NEUMAN: Sure. I think that will be  
9 better since I'm walking up to the screen, anyway.

10 MR. KLIMLEY: Sure.

11 MS. NEUMAN: Do you just carry that around  
12 with you?

13 MR. KLIMLEY: I do.

14 MS. NEUMAN: Wow. Cool.

15 (Multiple speakers.)

16 MS. NEUMAN: They didn't stop you at the  
17 scanner?

18 MR. KLIMLEY: They didn't. They didn't.

19 (Multiple speakers.)

20 MS. NEUMAN: Okay. So let's start with adult  
21 southern DPS green sturgeon entering the -- through  
22 the Golden Gate Bridge and moving up the back  
23 Sacramento River to spawn. This typically happens  
24 between March and about June, but the peak is May to  
25 June. And we're not sure what the annual success

1 rate of spawning is; it likely varies depending on  
2 the environmental conditions.

3           The adults move up the river. At this point  
4 in time -- I'm sure Peter and his group knows a lot  
5 more about this -- but we suspect that southern DPS  
6 green sturgeon are spawning somewhere above the Red  
7 Bluff Diversion Dam, but perhaps more recent data  
8 suggests they could be spawning below the Red Bluff  
9 Diversion Dam as well. But no doubt it's the upper  
10 Sacramento River. And -- and that -- you know, it  
11 would extend up to the point that they can't move any  
12 farther up river along the Sacramento, and that would  
13 be at the Keswick Dam.

14           We know that the eggs are spawned amid rocky  
15 bottom. There are a couple of papers out  
16 that suggest that spawning may occur amid different  
17 rocky bottoms than what the larvae that hatch out  
18 actually prefer. And so this is an interesting  
19 point. It's a nuance of the exact type of substrate  
20 that the different life-history stages require. The  
21 egg stage may require a slightly different type of  
22 substrate than the larvae and the juveniles. And  
23 this is a nuance that we haven't quite figured out  
24 yet, but it would be great to try to work on that a  
25 little bit more and get some very specific habitat

1 maps of what the Sacramento River, what the lower  
2 Feather River, what the lower Yuba River actually  
3 look like in terms of the micro-scale substrate.

4 We know that there's no pelagic dispersal  
5 stage of the larvae and, from laboratory experiments  
6 largely conducted at 20 degrees C, can be lethal to  
7 the larvae.

8 Leaving that stage, there is another stage of  
9 life that obviously is critical to overall population  
10 viability but we know very little about where  
11 juvenile, during the one to four years that they  
12 spend in freshwater before they exit out the Golden  
13 Gate -- Jeff McClain, who used to work for the  
14 National Marine Fisheries Service, put together a  
15 table for us a couple years back that -- that  
16 attempted to look at the temporal and spatial  
17 distribution of juvenile green sturgeon when they're  
18 in the San Francisco, Suisun and the delta. And the  
19 major point was that juveniles are everywhere at all  
20 times of the year. And this is -- this is kind of  
21 tough for us because we're, again, not able to  
22 pinpoint any specific areas in the bays and delta  
23 that the juveniles may be using or not using. This  
24 could be an area where, again, some feedback from you  
25 would be helpful.

1           Juveniles exit out through the Golden Gate,  
2 again, anywhere between one to four years after they  
3 hatch out as larvae, and they move out into the  
4 coastal ocean. And green sturgeon live to be, we  
5 think, approximately 70 years old. And so most of an  
6 individual's life is spent out in the coastal ocean.  
7 This makes them unique among other sturgeon species  
8 that any one individual's life is primarily spent out  
9 in the ocean. It takes anywhere between 10 to 15  
10 years for those -- what we call the sub-adult stage  
11 to mature. So they're out here in the coastal ocean  
12 before they will return to their -- to their estuary  
13 and river that they were spawned in. And they -- I  
14 believe that the latest evidence suggests that any  
15 individual may spawn every two to four years. So  
16 there's some range. We don't think that individuals  
17 are -- adult individuals, once they mature, are  
18 returning every year to spawn. It's somewhere  
19 between every two to four years to spawn. Now, when  
20 green sturgeon are out in the coastal ocean, we have  
21 figured out based on bycatch information from  
22 fisheries and also hydroacoustic tagging studies that  
23 green sturgeon do not seem to travel beyond the  
24 110-meter-depth contour. So they truly are staying  
25 coastal. They don't seem to have this depth barrier



1 according to what we know. And, also, according to  
2 the hydroacoustic data, we know that once sub-adults  
3 leave through the Golden Gate that they undergo a  
4 very extensive and directed migration to the north.  
5 Now, I should probably couch that with this one  
6 little tidbit, and that is that most of our detection  
7 arrays are set up to the north of the Golden Gate  
8 Bridge. We only have one array that's set up to the  
9 south -- or a couple of arrays that are set up to the  
10 south. I think the southernmost array is in Carmel.  
11 And so when we say that a directed northward  
12 migration is occurring, we certainly know that a  
13 large component of the population is doing that, but  
14 there may be some component of the population that we  
15 don't know about that actually is moving south, maybe  
16 a smaller proportion of the individuals.

17 But they undergo this extensive migration  
18 that takes them up to estuaries in northern  
19 California, Oregon, and Washington where they form  
20 large concentrations during the summer first, and  
21 then they appear to exit those estuaries and continue  
22 to move north, as far north as southeastern Alaska's  
23 northernmost array in Grays Harbor, Alaska, which is  
24 just off of Glacier Bay National Park. And even  
25 though that particular array is not designed for

1 detecting green sturgeon, we have a couple of  
2 detections there. The last bit of data that was  
3 transmitted to us was through 2006. So we have not  
4 received any data from that array since 2006. Steve  
5 Linley in our Santa Cruz office is working diligently  
6 to try to retrieve some of that additional post-data  
7 to see whether there are any other southern DPS green  
8 sturgeon detections that have occurred along the  
9 Alaskan coast.

10 MR. KLIMLEY: The fish were tagged in 2002  
11 and 2003, and so the tags are pretty much --

12 MS. NEUMAN: Spent?

13 MR. KLIMLEY: -- spent.

14 MS. NEUMAN: Okay.

15 MR. KLIMLEY: Yeah.

16 MS. NEUMAN: And we do, again, based on  
17 bycatch information along the British Columbian  
18 coast, know that green sturgeon do occur along the  
19 British Columbian coast after the summer months, so  
20 through the fall. So it lends greater support to the  
21 fact that, yes, once they leave these estuaries where  
22 they appear to be aggregating and feeding during the  
23 summer months, they move north, perhaps as far north  
24 as Alaska. And then they engage in a reverse  
25 migration after the winter months. So they're

1 spending the winter in the north -- somebody's got to  
2 straighten them out. Don't you go south in the  
3 winter? But southern DPS green sturgeon seem to go  
4 north in the winter. And why they're doing that,  
5 we're not exactly sure of at this point in time. It  
6 would be great to try and pinpoint some of those  
7 habitat parameters, some of those -- some of those  
8 things that -- you know, basically behaviors they're  
9 engaging in while they're in those areas. We're just  
10 uncertain what they're doing.

11 They start their southward migration in the  
12 spring, and then some of them will move back into the  
13 estuary to spawn. Some of them, especially if  
14 they're immature, perhaps hang out off the coast. So  
15 that's just a little bit about the life history.

16 MR. WOODBURY: If I could just add one  
17 thought.

18 MS. NEUMAN: Sure, David.

19 MR. WOODBURY: Primarily a sturgeon is a  
20 benthic-oriented species. When they're foraging,  
21 they're foraging on the benthic. But we've got  
22 evidence that when they're migrating, they come right  
23 up at the surface and migrate at the surface.  
24 Whether that's true in the ocean or not, I don't  
25 know. But --

1           MR. KLIMLEY: But that's true of most animals  
2 when they're migrating.

3           MR. WOODBURY: They'll come right up. So  
4 there is evidence that when they migrate, they're up  
5 at the surface, and this is in the upper few meters  
6 of the surface.

7           MS. NEUMAN: Pete, did you want to add  
8 something?

9           MR. KLIMLEY: Which is true of most ocean  
10 migrators. They do swim -- but they may also do this  
11 yo-yo swimming, going up and down in the water  
12 column.

13          MS. NEUMAN: Okay. Thanks.

14          And for those of you who are familiar with  
15 our 2006 listing and the "not warranted" decision  
16 that came before that, you'll know that based on  
17 genetic information largely collected by the folks at  
18 UC Davis and information about spawning site  
19 fidelity, we know -- or we think we know that there  
20 are at least two distinct population segments from  
21 northern DPS that spawns in two rivers from north of  
22 the Eel River. Those would be the Rogue River in  
23 Oregon and the Klamath River in California; and a  
24 southern distinct population segment that currently  
25 spawns only, as far as we know, in the Sacramento

1 River.

2 Our 2006 listing decision listed the southern  
3 DPS as threatened, and we issued a "not warranted"  
4 decision for the northern distinct population  
5 segment, although that distinct population segment  
6 remains on our Species of Concern list. It's  
7 important to note that although this segregation  
8 north and south is -- it only applies to the spawning  
9 rivers. Once green sturgeon leave through the Golden  
10 Gate Bridge and enter the coastal ocean, they are  
11 intermingling with their northern DPS counterparts in  
12 a number of different places, not only out in the  
13 ocean but also in some of the estuaries that they  
14 visit as they move north. So just an important point  
15 to remember, and it's something that's difficult for  
16 us to deal with because morphologically, there's no  
17 distinction between these two DPS. It's a little  
18 issue that we're still trying to grapple with in  
19 terms of enforcing all of these regulations. And I  
20 think I already covered distribution.

21 I already mentioned in April 2006 we listed  
22 the southern DPS as threatened and made the  
23 Endangered species Act.

24 September 8th of this year, we issued a  
25 proposed critical habitat designation for only the

1 southern DPS.

2 November 7th of this year is when the public  
3 comment period officially closes. But, again, we're  
4 getting some requests for extensions on public  
5 comments. But this is our limitation right here: As  
6 of June 30th, 2009, we must, because of a court order  
7 and our statutory deadline, issue a final critical  
8 habitat designation in the Federal Register. What  
9 this means is, the bottom line for us is, if we don't  
10 do it, we'll get sued. And nobody at NMFS wants a  
11 lawsuit. And, you know, I'm not sure how we will  
12 deal with this because it sounds like a lot of you  
13 will need much more time to gather your thoughts and  
14 information. And so we're going to have to continue  
15 our discussions about this deadline. Because if we  
16 don't meet it, we will have a court case on our  
17 hands.

18 What is the definition of critical habitat as  
19 defined by the Endangered Species Act? Critical  
20 habitat are specific areas within the geographical  
21 area occupied by the species on which are found  
22 physical or biological features that are essential to  
23 the conservation of the species and may require  
24 special management considerations or protections.

25 For those of you who have heard NMFS folks

1 throw around the term "essential fish habitat" or  
2 "essential habitat," this is a completely different  
3 thing. Essential fish habitat is something that's  
4 issued under the Magnuson-Stevens Act; critical  
5 habitat is specific to the Endangered Species Act.  
6 Okay? Two different things.

7 You can see here that the standards for  
8 defining critical habitat are pretty low, actually.  
9 You need to show that there is some element of the  
10 habitat that green sturgeon need in a particular  
11 area. And then please, you know, cue into the word  
12 "may." We as a Critical Habitat Evaluation Team need  
13 to decide whether that particular characteristic of  
14 the habitat may require special management for  
15 protection -- "may." Okay? So the standard is not  
16 very high. So that's why you'll see as we move  
17 forward that it's been very easy for us to work with  
18 uncertainty and really use the best available data  
19 that we had in order to come up with this rule. We  
20 don't have a higher standard.

21 The Endangered Species Act also says  
22 something about unoccupied areas with regard to  
23 critical habitat. And it says, "Specific areas  
24 outside the geographical area currently occupied by  
25 the species" -- the Act doesn't say that, but that's

1 what it means -- currently occupied by the species --  
2 "upon a determination that such areas are essential  
3 for the conservation of the species may also be  
4 designated."

5 So now I'll take you through our process for  
6 coming up with our proposal. The first was to  
7 identify critical habitat, which areas -- which  
8 specific areas within the general geographic area  
9 occupied by the species contained some habitat  
10 feature that we felt was important for the  
11 conservation of the species and which may require  
12 special management or protection.

13 So the first thing we needed to do was  
14 determine the geographical area occupied by the  
15 species. At this first cut, all we did as a group  
16 was determine where green sturgeon occur, not just  
17 southern DPS. We combined the information for both  
18 the DPSs and determined where do green sturgeon  
19 occur. We had varying levels of information, varying  
20 quality of information. But for things like  
21 anecdotal newspaper reports where a -- you know, we  
22 had information from a newspaper back in 1920 that a  
23 sturgeon was caught in the San Joaquin River, but it  
24 didn't say which species, we did not include that  
25 kind of -- that level of information in our -- in



1 defining our geographic area occupied by the species.  
2 So you'll see in a couple of iterations of our maps,  
3 the San Joaquin system is not included as an area  
4 that is -- that was ever occupied by the species.  
5 And so we put this information together --

6 MR. KLIMLEY: By the way, we are trying to  
7 get an array of monitors up there to find out in the  
8 future. So maybe we can answer that question better.

9 MS. NEUMAN: Great. Great.

10 Okay. And our geographic area occupied by  
11 the species was based on the fishery-independent  
12 surveys, fisheries' records, sightings, and  
13 literature primarily.

14 Then what we did was we took a look at this  
15 large area, and we divided them up into specific  
16 areas, first making a cut between freshwater  
17 estuaries and the coastal ocean, and then making  
18 smaller units even within those areas depending on a  
19 couple of different criteria that we used that I  
20 really can't get into right now, but we can certainly  
21 field questions on that. And, again, what we needed  
22 to show was that those areas contained at least one  
23 primary constituent element, one feature of the  
24 habitat that we considered to be essential to the  
25 conservation of the species and at least some

1 indication that those PCEs may require special  
2 management for protection.

3 This is a map showing the geographical area  
4 occupied by the species. So you'll see it includes  
5 all of coastal Alaska out to the 110-meter-depth  
6 contour and the coastal ocean all the way down to the  
7 California/Mexico border, again, out to the  
8 110-meter-depth contour. It includes a variety of  
9 estuaries from Washington, Oregon, and California,  
10 and a few rivers in those same three states.

11 MS. JOHNCCK: By the way, Melissa, you're  
12 skipping some slides on purpose?

13 MS. NEUMAN: Yes. You know, the presentation  
14 that I'm handing out to you is a much longer version  
15 than what I can talk about today. This version has  
16 something like 36 slides. It's for you to take home  
17 and get some more information from if you need it.  
18 This is an abbreviated version --

19 MS. JOHNCCK: Okay.

20 (Multiple speakers.)

21 MS. NEUMAN: -- just because I'd be talking  
22 for two hours --

23 MS. JOHNCCK: I understand. Some of these are  
24 also important considerations, of course, that are  
25 missing discussion -- the economic impacts for the

1 critical habitat designation.

2 MS. NEUMAN: We're definitely going to get to  
3 that in just a minute.

4 MS. JOHNCK: I just want to make sure --  
5 okay.

6 MS. NEUMAN: Yeah. And we can answer  
7 questions, too, about that in just a minute. We're  
8 just talking about the biological considerations --

9 MS. JOHNCK: Yeah.

10 MS. NEUMAN: -- right now.

11 MS. JOHNCK: Okay.

12 MS. NEUMAN: We'll get into the economic  
13 stuff in a minute.

14 This slide shows you what we consider to be  
15 our primary constituent element in each of the three  
16 different types of water habitats: Freshwater,  
17 coastal bay estuaries, and coastal marine waters.  
18 You'll note that there's repetition, and that as you  
19 move out into the coastal ocean, the list sort of  
20 dwindles down. You'll also note that this primary  
21 constituent element might seem vague to you. But I  
22 should point out that we have -- it's a small record  
23 so far at NMFS for critical habitat designations, and  
24 that the primary constituent elements identified for  
25 other species including large whales are even less

1 specific in some cases. I would say for green  
2 sturgeon we're right on par with what other critical  
3 habitat designations have identified. If we could  
4 have gotten more specific and said for food  
5 resources, ghost shrimp, we would have done that.  
6 But the reality of it is, based on a study that we  
7 just received, I guess, about six months ago from a  
8 group who looked at food habits of green sturgeon in  
9 Willapa Bay, we know that they eat quite an array of  
10 different food types, not just benthic invertebrates  
11 but also fish species. And so food resources, in our  
12 rule you'll see we string out a list of those that  
13 were identified in that food habit study. But it's  
14 not just one food resource that we think that green  
15 sturgeon are eating.

16 I don't think I'm going to spend a whole lot  
17 more time on this. You can see what they are, things  
18 like food resources, substrate type, water flow,  
19 water quality, migratory corridors, water depth, and  
20 sediment quality. Again, the list sort of dwindles  
21 down a bit. When we get out to the coastal ocean,  
22 we've highlighted food resources, water quality, and  
23 migratory corridors as the important elements of the  
24 habitat that are essential to conserving the species.

25 So step two was to come up with our proposed

1 designation. We used the best available science to  
2 do this. And we had to consider, as Ellen pointed  
3 out just few minutes ago, economic, national  
4 security, and other impacts of the designation. This  
5 is unlike anything else we have to do at NMFS when we  
6 are working with the Endangered Species Act.  
7 Critical habitat designation is one of the only times  
8 where we actually have to look at the economic  
9 impacts of what we're doing and balance it against  
10 the benefits -- the conservation benefits to the  
11 species. So this was an interesting process that  
12 involved a whole team of economists -- not at NMFS, I  
13 should mention.

14 So I just went over what the next part of the  
15 designation process is. We have to balance the  
16 benefits of inclusion against the benefits of  
17 excluding a particular area from our designation.  
18 And then, of course, ultimately the Secretary of  
19 Commerce has the designation to exclude particular  
20 areas beyond what our team came up with.

21 So when considering the benefits of  
22 designation, really there are two primary benefits to  
23 a critical habitat designation. First of all, a  
24 critical habitat designation provides protections  
25 that are outlined under the Endangered Species Act,

1 Section 7. Also, it provides an opportunity for  
2 outreach and education; it gives notice to people of  
3 the areas that are important to the species.

4 Now, I just want to come back to this point.  
5 What this is really saying is that a critical habitat  
6 designation is really only going to affect activities  
7 that are conducted by or funded by or permitted by a  
8 federal agency. It's really important to get that  
9 point across. Because if you are a private landowner  
10 and you are doing something that may modify one of  
11 the PCEs that we've identified in our rule, there's  
12 really no regulatory power that the critical habitat  
13 designation has in that particular case. Now, with  
14 regard to take, which is harm, shoot, harass -- the  
15 definition of "take" under the Endangered Species Act  
16 is basically anything that manipulates that -- that  
17 species in any way. That is a separate issue. So I  
18 want to drive this home: Critical habitat  
19 designation really only affects action -- activities  
20 that have a federal nexus and -- and, also, another  
21 important thing to consider is that if the activity  
22 is causing take of the species, then that federal  
23 agency is already consulting under the "take"  
24 definition and prohibition of the ESA, Section 7.  
25 The critical habitat designation is an incremental

1 look at what over and above that activity is going to  
2 do to the habitat feature: To the food resources, to  
3 the water quality, to the migratory corridor, to all  
4 of those things you saw on our list. Now, it's very  
5 hard to tease these two things apart. We have lots  
6 of criticisms. There are all kinds of people out  
7 there who are trying to restructure the Endangered  
8 Species Act so that, you know, critical habitat and  
9 its role and its purpose is better defined, more well  
10 defined. Right now what I can tell you based on our  
11 consultation record is that we've never issued a  
12 jeopardy opinion without also claiming that that  
13 particular activity is going to adversely modify  
14 critical habitat. So I think I'll leave it at that,  
15 and we can talk about it a little bit more after I  
16 give the presentation. But first point, activities  
17 that have a federal nexus are really the only ones  
18 affected by a critical habitat designation, and,  
19 number two, critical habitat is viewed as being  
20 different and distinct from taking the species  
21 itself.

22           Okay. What are conservation -- sorry. We  
23 had a Critical Habitat Review Team who looked at the  
24 primary constituent elements in each of the specific  
25 areas and then rated the conservation value of those

1 areas. They assigned, based on a whole list of  
2 criteria -- again, that we can't get into here, but  
3 if you're interested in the details, look at the  
4 Biological Report that's listed on our web site for  
5 more information. But ultimately, this group of ten  
6 or so people assigned a high, medium, low, or ultra  
7 low conservation value to each of our specific areas.  
8 And these ratings represent the estimated relative  
9 benefit of the designation.

10 Ideally, I guess what you would do is try to  
11 monetize those conservation benefits because,  
12 remember, the next step in the process is to balance  
13 the benefits of the designation against the benefits  
14 of exclusion, and the benefits exclusion are all  
15 based on economic reasons. And so when you're doing  
16 this balancing, you would ideally have your units of  
17 conservation value and economic cost the same. But  
18 unfortunately, and as far as I know, none of us have  
19 ever been able to figure out how to monetize the  
20 biological benefit of a critical habitat designation.  
21 So we stick with these relative and qualitative  
22 values.

23 By specific area, the CHR Team looked at the  
24 life stages present in each of the specific areas,  
25 the quality of the primary constituent element from



1 those areas, the historical and current use of the  
2 southern DPS in those areas, and came up with an  
3 overall conservation value.

4 Some additional considerations were  
5 connectivity of the migratory corridor and confirmed  
6 presence of southern DPS fish. And ultimately,  
7 again, they arrived at a high, medium, low, and ultra  
8 low conservation value for each of the areas. And I  
9 show a map here of how that played out. I know you  
10 can't see it, but we'll look at this map again in  
11 more detail a bit later.

12 So now on to Ellen's point about the benefits  
13 of exclusion. Again, during the critical habitat  
14 designation, we have to identify what the benefits of  
15 excluding a particular area from a critical habitat  
16 designation might be. And very often the biggest  
17 benefit of excluding an area comes with regard to  
18 economic impacts. But there are also impacts on  
19 national security. Currently we're requesting  
20 comments from the Department of Defense. We don't  
21 think that there are any major Department of Defense  
22 lands within our proposed critical habitat  
23 designation, but typically we wind up excluding  
24 Department of Defense lands from our designations.

25 And other relevant impacts, for example, we

1 have just requested some information from the tribes  
2 on whether or not there are any tribal lands that  
3 overlap with our critical habitat designation. And,  
4 again, typically, depending on the extent of those  
5 tribal lands, we may exclude any of those tribal  
6 lands from the critical habitat designation. And for  
7 this proposed rule, we consider the economic benefits  
8 of exclusion as being the primary cost of the  
9 critical habitat designation.

10 And we had a team of economists who  
11 identified the types of federal actions that could be  
12 affected by a critical habitat designation, the  
13 modifications that might be required as a result of  
14 the designation. They averaged the incremental cost  
15 of the modifications -- and this word "incremental,"  
16 I think I used it previously, but let me define it a  
17 little bit for you. There are costs that are  
18 associated with taking a listed species. In a  
19 critical habitat designation what the economists try  
20 to do is tease out the costs of just the critical  
21 habitat designation, just the cost of what an  
22 activity is going to do to a particular habitat  
23 characteristic. So it's a tough thing to do, but a  
24 lot of people who have commented so far that it seems  
25 like the economic costs of this designation are low

1 or on the low side. Keep in mind that our economists  
2 were directed to just look at what the costs over and  
3 above the listing a critical habitat designation  
4 would mean. Okay?

5 MR. HAUSSNER: I guess that's now a word that  
6 you've stuck in. It's not in this slide here.

7 MS. NEUMAN: Yeah.

8 MR. HAUSSNER: So that's something your  
9 attorneys probably told you to do.

10 MS. NEUMAN: Well, actually, it's in one of  
11 the other slides. It's in one of the other slides  
12 that I decided to cut out. So you'll see some  
13 explanation of incremental costs. So it is there.  
14 It's in the version I gave to you. I just -- I  
15 needed to shorten this up. It was 36 slides  
16 initially. I'm already talking too long.

17 Okay. And then -- so they looked at the  
18 expected number of actions in a specific area and to  
19 come up with the estimated annualized incremental  
20 cost of the designation in a specific area, they  
21 multiplied the costs by specific area by the number  
22 of actions occurring in that area.

23 MR. WOODBURY: Did they also take into  
24 account that we have designated critical habitat for  
25 other species already in these areas as part of that

1 incremental -- overall --

2 MS. NEUMAN: I believe that they certainly  
3 looked at the salmon and steelhead critical habitat  
4 designations and included them in their -- in their  
5 cost estimates. Because we have -- you know, we only  
6 have a consultation history for green sturgeon  
7 beginning in 2006. And so it's kind of tough to  
8 figure out what's going on with a species that was so  
9 recently listed. Some of you might ask, "Well, why  
10 didn't you wait more? Why didn't you take some more  
11 time for this critical habitat designation?" And one  
12 of the things that I didn't point out earlier is that  
13 the Endangered Species Act, again, requires that we  
14 designate critical habitat at the same time that we  
15 list the species. It offers a one-year grace period,  
16 which we took. But it -- again, the timing of things  
17 as far as the ESA dictates is sometimes a bit of a  
18 mystery because we don't have a recovery plan for our  
19 species yet; yet we're trying to protect habitats  
20 that we think are essential to the conservation of  
21 the species. It's a tough thing to deal with. But,  
22 again, critical habitat, we're under a statutory  
23 deadline to do it. And so we have to meet the  
24 requirements of the Endangered Species Act.

25 MR. WOODBURY: Actually, my question was, did

1 they take into account the fact that a lot of these  
2 areas, especially like San Francisco Bay, we already  
3 have designated critical habitat for salmonids? So,  
4 therefore --

5 MS. NEUMAN: Oh.

6 MR. WOODBURY: -- since the -- since the --  
7 the area's already --

8 MS. NEUMAN: Yes.

9 MR. WOODBURY: -- designated, how much more  
10 incremental cost is there going to be since we're  
11 already --

12 MS. NEUMAN: Exactly

13 MR. WOODBURY: -- doing critical habitat for  
14 salmonids that may have been a part of that factored  
15 in as well. I just --

16 MS. NEUMAN: It is. It is.

17 MR. WOODBURY: -- wanted to maybe clarify  
18 that.

19 MS. NEUMAN: And thank you for clarifying  
20 that. So that, again, is another meaning of the term  
21 "incremental cost." It means that what does this  
22 designation for southern DPS green sturgeon mean in  
23 terms of economic cost over and above everything else  
24 that exists out there: The listing for this species,  
25 the listing for our salmonids, Fish & Wildlife

1 Service, Delta smelt. You know, these are all things  
2 that our economists tried to take into account. And  
3 so the costs you are seeing are just associated with  
4 the costs of the critical habitat designation for  
5 green sturgeon. If the costs have already been  
6 accounted for elsewhere for other listed species,  
7 they're not included here.

8           So now is the time that we try to do our  
9 balancing. We need to consider for exclusion areas  
10 that have a relatively high economic impact and a  
11 relatively low conservation value. And our issue is  
12 how to decide what is relatively high economic  
13 impact -- and you'll see our definitions on the next  
14 slide. And this is largely a policy consideration.  
15 When I say "policy," it means that our agency  
16 determines what our thresholds are for the economic  
17 impacts. What are we going to consider a high  
18 economic impact, a medium economic impact, a low  
19 economic impact, and how are we going to balance that  
20 against our benefits -- our conservation benefits.

21           We come up with a list of rules that will  
22 allow us to not exclude areas -- oh, I'm sorry, I  
23 need to back up. We came up with an overall rule  
24 that said we will not exclude an area if it will  
25 significantly impede the conservation of the species.

1 And this is the same policy consideration that was  
2 used for the Pacific salmon. So what does this  
3 really mean? It means that any of our specific areas  
4 that have a high conservation value that were rated  
5 as a high were not excluded from the designation no  
6 matter what the economic cost associated for that  
7 specific area was. And you'll see that on the map in  
8 just a minute. However, for those areas -- okay.  
9 So -- let's see here. Okay. I think I glossed over  
10 this already. This is probably the most important  
11 thing for you to focus on here, the decision rules,  
12 where -- again, as I just stated, anything with a  
13 high conservation value was not eligible for  
14 exclusion, but conservation values of medium, low,  
15 and ultra low were areas that were on the table for  
16 exclusion based on what the economic costs associated  
17 with the designation would be.

18 And so what we said in the case of an area  
19 that had a medium conservation value, if the economic  
20 costs for that particular area exceeded \$100,000, we  
21 considered that area for exclusion. If the area had  
22 a low conservation value and the economic costs were  
23 greater than \$10,000, we considered that area for  
24 exclusion. And if an area had an ultra low  
25 conservation value, we considered it for exclusion if

1 the economic impacts were greater than zero. Believe  
2 it or not, we did have one case where we had a tie.  
3 We had an ultra low conservation value, and we had a  
4 cost of zero associated with our critical habitat  
5 designation. We actually left that area in the  
6 designation. Our rule was that if there was a tie,  
7 you know, between the threshold for economic cost and  
8 the conservation value, we -- we gave it to the  
9 species. We erred on the side of conserving the  
10 species in that case.

11 Was there a question out there?

12 MR. KEEGAN: Yeah. I just wanted  
13 clarification. The economic exclusions, they don't  
14 have anything to do with, though, the -- in terms of  
15 national security potential exclusions; is that  
16 correct? I mean --

17 MS. NEUMAN: It is true, at this point we --  
18 we went out to the Department of Defense -- well, we  
19 considered national security to really be related to  
20 Department of Defense lands. If there is another  
21 issue that involves national security, then we  
22 probably should talk about that. But when we talked  
23 about national security, we really considered that to  
24 be linked entirely to Department of Defense lands  
25 and, you know, considered that we would exclude those



1 Department of Defense lands in order to preserve the  
2 national security of the country.

3 MR. KEEGAN: Well, we tried, I mean, the same  
4 thing. Those considerations are -- if they were  
5 high -- high conservation value, then the tribal  
6 lands, for example --

7 MS. NEUMAN: Oh. Oh, oh, oh.

8 MR. KEEGAN: -- you would not -- this would  
9 not apply in that case; is that correct? You would  
10 exclude --

11 MS. NEUMAN: Well, we're still in the process  
12 of getting feedback from the tribes. We know that  
13 there are some very small pieces of some of our  
14 specific areas where there are tribal lands. I think  
15 what we need is to get feedback from the Department  
16 of Defense and the tribes on whether or not they want  
17 those areas to be excluded from the designation. It  
18 looks like the Department of Defense doesn't have  
19 anything in the area we're proposing to designate,  
20 but I think that's still being looked into a little  
21 bit.

22 MS. LAMB: Mary Lamb with the Air Force.

23 The -- the national security exemption is  
24 actually part of our authorization a couple of years  
25 ago where there was a ruling that that had to be

1 considered if the Secretary of Defense wanted to say  
2 that they absolutely could not have a listing on our  
3 site. I don't believe that's ever been used, the  
4 actual going back to the resource agency and saying  
5 for national security reasons we cannot have a  
6 designation. But what the Department of Defense does  
7 do and is required to do by the Seitz Act is have  
8 natural resource management plans for all our lands  
9 and properties. And within those plans, if we have a  
10 management plan for the species, which we should have  
11 if we actually have the species and it's been listed,  
12 then the resource agency will look at the plan and  
13 come to some agreement if it's adequate management.  
14 If we're already providing adequate management for  
15 that species, then we can use that plan in lieu of a  
16 critical habitat designation. So it's not that we  
17 aren't providing for the species; it's just that the  
18 critical habitat designation is not required because  
19 our plans are done in lieu of. So that -- for us --  
20 and I suspect with the tribes, too, you would be  
21 looking at how they're managing the species, also.

22 MS. NEUMAN: Right.

23 MR. HAUSSNER: I had not planned on talking  
24 until a little bit later, but, as an example, the  
25 Maritime Administration designates strategic ports in

1 order to support DOD's mission. And they also  
2 operate the Ready Reserve Fleet, again, to support  
3 DOD's position. And we got Army Reserve facilities  
4 that also will be impacted by these designations. So  
5 I think in -- if you're going to truly do that, you  
6 need to go a little bit further than just going to  
7 DOD and look at other federal agencies because there  
8 are specific -- other examples of national security  
9 implications to this document from agencies other  
10 than DOD.

11 MS. NEUMAN: Okay. It would be good to get a  
12 list of, you know, those agencies and who the  
13 appropriate contact person within those agencies are.

14 MS. LAMB: I would again like to say that as  
15 part of the law, it was written into one of the DOD's  
16 authorizations, and it really is specific to --

17 MS. NEUMAN: The DOD.

18 MS. LAMB: -- lands owned by DOD. What  
19 you're describing is something that would not be  
20 captured by the site that you're using to come and  
21 talk to us about that exemption. So I don't know  
22 that there's been any legislation. So that  
23 consideration would be, you know, outside of what  
24 she's been referring to.

25 MS. NEUMAN: Question?

1 MR. BERGE: Yeah, Berge with PMSA.

2 I'm just curious on the thresholds for  
3 exclusion, are those gross numbers, or are they  
4 weighted in some fashion?

5 MS. NEUMAN: They are weighted. They are  
6 annualized cost estimates. And there are a couple  
7 of -- there's one economic analysis document that  
8 supports our final rule, and it is available on line.  
9 Unfortunately, we don't have any of the economists  
10 who worked on this designation here at the meeting.  
11 And so I am not able to, you know, specifically  
12 describe to you exactly how those costs were arrived  
13 at. What I can tell you is that they were weighted,  
14 and that they were annualized, and they came up with  
15 some high, medium, and low cost estimates, and that's  
16 all in the Economic Report and Analysis. And I'm  
17 also happy to share with you the lead for Industrial  
18 Economics who conducted this economic analysis for us  
19 so that you can contact them directly with some  
20 specific questions.

21 MR. BERGE: Okay. Thank you. I'm just a  
22 little curious because as you start to designate  
23 areas, especially areas that are fairly  
24 interconnected, let's say, within the San Francisco  
25 Bay, the lower bay, the upper reaches, if you start

1 designating them as individual areas and yet there's  
2 actual economic relationships between them, I'm  
3 curious whether or not there's a potential to kind of  
4 downplay some of the economic impacts of certain  
5 areas.

6 MS. NEUMAN: Yeah. There could potentially  
7 be a bias there. You know, that bias also carries  
8 through to the rest of our specific areas in our  
9 designation because our specific areas are not all of  
10 equal size.

11 MR. BERGE: Right.

12 MS. NEUMAN: So you'll note that when it --  
13 when we -- some of the areas that we excluded were  
14 among the larger specific areas, for example, from  
15 Monterey to the California/Mexico border. That was  
16 one specific area and it was excluded. The important  
17 thing to note is that it also had a low conservation  
18 value. And for the bays that you're talking about,  
19 they all had a high conservation value. So  
20 ultimately the costs, while, you know, important to  
21 consider, according to our decision rules, anything  
22 with a high conservation value was not eligible for  
23 exclusion because we believe that area to be  
24 essential for the conservation of the species. And  
25 we, you know, used our own discretion there and said

1 no matter what the economic cost here, we are not  
2 going to exclude the area. So...

3 Okay. Well, I said that this was going to be  
4 a lot bigger so that you can see it, but I doubt you  
5 can. So this map, what it shows you are specific  
6 areas along the coast of the continental U.S. and  
7 Alaska here, the rivers -- sorry, the estuaries and  
8 rivers in California, Oregon, and Washington, and  
9 then more specifically in California, the bay/delta  
10 area and the rivers -- the inland rivers.

11 The green shading shows you areas that were  
12 deemed of high conservation value to the species.  
13 The yellow areas are those of medium conservation  
14 value. The red areas are those of low conservation  
15 value. And the blue areas are those of ultra low  
16 conservation value. So if you can cue into those  
17 colors, what you'll see is that this stretch of the  
18 coast from Monterey all the way up to Cape Flattery,  
19 Washington, out to 110 meters depth was considered to  
20 be of high conservation value to the species. From  
21 Monterey to the Cal/Mex border, ultra low  
22 conservation value. Along the Alaska coast,  
23 southeastern Alaska was considered to be of medium  
24 conservation value. And northwestern Alaska, all  
25 ultra low conservation value.

1           You'll notice a smattering of lows, ultra  
2 lows and mediums when it comes to the estuaries  
3 and -- you know, from California up the -- up the  
4 coast to Oregon and -- and Washington. And I'll  
5 highlight for you the three Washington estuaries that  
6 were considered to be of high conservation value:  
7 Grays Harbor, Willapa Bay, and the lower Columbia.  
8 Then we have a number of estuaries in Oregon that  
9 were considered to be of ultra low conservation  
10 value. Then we have two medium bay -- conservation  
11 value bays in Oregon: Winchester Bay and Coos Bay.  
12 Moving down here into California, we've got the  
13 Klamath as ultra low, again, because it's not  
14 important for the southern distinct population  
15 segment; Humboldt Bay, a medium; Eel River, an ultra  
16 low. And I don't know that I have to name all of  
17 these, but, you know, that will give you a little bit  
18 of a sense here. And then this is the bays and the  
19 delta here, all of high conservation value. We've  
20 got the bypasses here, Yolo -- oh, wait -- okay. The  
21 lower Yuba here of medium conservation value, the  
22 lower Feather of medium conservation value, and then  
23 the Sacramento River, high conservation value. So  
24 all of the Sacramento River -- not just the upper  
25 portion of the Sacramento, but the entire Sacramento.

1           Okay. Now, these places where you see the  
2 black stars, those are areas that were eligible for  
3 exclusion based on the balancing of the conservation  
4 benefit against the economic cost of the designation.  
5 So what I'll point out is, is that -- one, two,  
6 three, four, five, six, seven, eight, nine, ten,  
7 eleven, twelve, thirteen, fourteen -- 15 areas of our  
8 39, I believe is what we had, were flagged as being  
9 eligible for exclusion, and we excluded most of them,  
10 except for the lower Feather River and Coos Bay. And  
11 the reasons for that, you know, we can discuss  
12 perhaps a little bit later, but these were areas  
13 where upon second glance and after going back to the  
14 Critical Habitat Review Team, they said, "Yeah, you  
15 know, the economic costs in those areas may be -- may  
16 make that area eligible for exclusion, but we really  
17 truly believe that those areas are important for the  
18 conservation of the species, and here's why." And so  
19 we talked about that, and we wound up including two  
20 of those -- two of the 15 that were actually eligible  
21 for exclusion. We also requested a lot more  
22 information, I believe, on Coos Bay in particular.

23           Okay. So the final exclusions, just in terms  
24 of square miles or square kilometers, we excluded  
25 2,738 square kilometers of estuarine habitat. In



1 California, those areas were the Elkhorn Slough,  
2 Tomales Bay, Noyo Harbor, Eel River, and Klamath. In  
3 Oregon it was the Tillamook, estuaries at the mouths  
4 of the Rogue, the Siuslaw, and the Alsea Rivers. And  
5 in Washington State, Puget Sound. With regard to  
6 the coastal marine habitat area that was excluded, it  
7 was 1,000,000 -- approximately 1,000,000 square  
8 kilometers from the Cal/Mex border to Monterey Bay  
9 and from the Alaska/Canada border to the Bering Sea.

10 MR. BERGE: Question.

11 MS. NEUMAN: Sure.

12 MR. BERGE: The Monterey exclusion, is that  
13 up to Monterey or including Monterey?

14 MS. NEUMAN: Monterey Bay is included in the  
15 designation. So Monterey Bay is not considered to be  
16 a bay-specific area; it's included in the -- in the  
17 coastal ocean section because it -- nobody really --  
18 it doesn't meet the definition of an estuary, really.

19 Okay. So here are some maps that show the  
20 proposed critical habitat designation for the  
21 southern DPS. I also have maps posted up there on  
22 the wall. These same two maps are to the far right.  
23 You can see some blow-ups of maps of California on  
24 the left. Please note that Map 1 and Map 2 on the  
25 left there, the blow-ups of California show you the

1 areas occupied by the species. So this is going --  
2 this is not the critical habitat designation over  
3 here. When you come over and you take a look at  
4 California maps, this is not the designation. This  
5 is just everything in a blow-up fashion that was  
6 considered to be occupied. Okay? So this got pared  
7 down quite a bit in order to arrive at these. Okay?

8           And I think I already -- well, this is the  
9 text version of our final proposed designation. In  
10 California we have the Sacramento River, the lower  
11 Feather River up to the dam, the lower Yuba River up  
12 to the dam, San Pablo Bay, Suisun Bay, San Francisco  
13 Bay, Humboldt Bay and the delta -- it's the legal  
14 definition of the delta, by the way. In Oregon we  
15 have Coos Bay, Winchester Bay, and the Yaquina. In  
16 Washington, Willapa Bay and Grays Harbor, the lower  
17 Columbia River estuary to the Bonneville Dam, and  
18 coastal marine waters within 110-meters depth from  
19 Monterey Bay including Monterey Bay to Cape Flattery  
20 including the Strait of Juan de Fuca. The total area  
21 proposed you can see down here.

22           We spent quite a bit of time in our final  
23 rule highlighting some of our data needs and  
24 uncertainties and soliciting all of you and beyond  
25 for more information on a variety of areas and

1 topics. In the coastal marine areas, one of the  
2 things that we were acutely aware of was that more  
3 specific information on green sturgeon distribution  
4 in marine areas would be very helpful. It would help  
5 us focus our critical habitat designation quite a bit  
6 more. We wound up looking to our own observer  
7 program -- our own NMFS Observer Program to help us  
8 better define what was going on with green sturgeon  
9 out in the ocean. And we were told, "We can't" --  
10 "We can't give you that information." They did work  
11 with us a little bit. But what they supplied us with  
12 was a catch-per-unit effort by the specific areas we  
13 defined. They used our unit -- our spatial unit to  
14 calculate their catch-per-unit effort. And low and  
15 behold, there was a positive catch-per-unit effort in  
16 every specific area along the coast, according to our  
17 Ground Fish Observer Program. It didn't help us  
18 focus our designation. And we got a lot of -- I  
19 think we finally have worked out something where the  
20 observers are now comfortable releasing the latitude  
21 and the longitude information for green sturgeon  
22 collected in our Ground Fish fisheries, and so this  
23 might be helpful. But, again, it is fisheries' data.  
24 The whole reasoning behind this is that there is a  
25 law out there that protects fishing locations, spots

1 where fishing is occurring, and you cannot reveal, I  
2 guess, to just anyone without signing your life away  
3 that you're going to reveal a fisherman's fishing  
4 location, you know, where they go. And so it's  
5 understandable, but we're working through it. I've  
6 signed my life away, and apparently the data is going  
7 to be released to me. Samples that have been  
8 collected by our Ground Fish Observer Program have  
9 been sent to Josh at UC Davis. He's currently, I  
10 think, using just bar-coded information to identify  
11 those green sturgeon to their distinct population  
12 segment of origin. This will be really helpful for  
13 us. We know that that coastal ocean we have proposed  
14 for designation is a huge area. And if we can focus  
15 it a little bit more, that would be helpful. But we  
16 are also quite aware of the fact that these fish  
17 undergo an extensive migration in the ocean and that  
18 we need to provide connectivity for them. So even if  
19 our fisheries' data shows us that there's a large  
20 collection of green sturgeon right outside the Golden  
21 Gate Bridge, we're still going to be very cognizant  
22 of the fact that the green -- the southern DPS fish  
23 need to get to Alaska, they need to get there  
24 somehow. And they use these northwestern estuaries  
25 quite extensively. And so we're cognizant of the

1 fact that we also have this migratory corridor as a  
2 primary constituent element of habitat, and we need  
3 to preserve that and keep it in tact. So I'll leave  
4 it at that.

5 And then activities that may affect our  
6 primary constituent elements in the coastal area.  
7 This really applies to all of our areas, but  
8 specifically the coastal marine areas because there's  
9 been a lot of talk, mostly with the Department of  
10 Energy and FERC about alternative energy projects,  
11 LNG -- what else -- hydroelectric power-generating  
12 stations, and how these things are going to affect  
13 our primary constituent elements. How are those  
14 things going to affect the food resources that green  
15 sturgeon rely on? How will those things affect  
16 migratory corridor and safe passage for green  
17 sturgeon.

18 Right now, again, in our proposed rule and  
19 even in a final critical habitat designation, we just  
20 need to show that -- that one of these activities may  
21 require special management in order to protect the  
22 PCE. So remember, the standard's low, but, of  
23 course, we're always looking for information that's  
24 going to give us a better connection between what's  
25 going on and the impact it might have on the habitat

1 characteristic.

2 MR. KLIMLEY: Melissa, one emerging issue is  
3 power generation on waves -- and they do have  
4 ampillary organs and are sensitive to electric fields.  
5 And I know there's a call for proposals to cover kind  
6 of that field. But so little is known about it, it's  
7 really difficult --

8 MS. NEUMAN: I was just asking somebody the  
9 other day whether green sturgeon had electroreceptors  
10 like sharks do on their faces and snouts.

11 MR. KLIMLEY: I don't -- hammerhead sharks  
12 use magnetic (unintelligible) valleys and ridges and  
13 use them to find their food resources and such. So  
14 it's my understanding that would be a subtle issue.

15 MS. NEUMAN: Okay. And then unoccupied  
16 areas, we really need to talk about this a little  
17 bit. The Critical Habitat Review Team flagged seven  
18 unoccupied areas that they felt needed a closer  
19 examination for the presence of PCEs and special  
20 management that they may require -- or protection  
21 that they may require. Three areas in particular  
22 were highlighted as being particularly important  
23 unoccupied areas: The upper Feather River, the upper  
24 Yuba River, and a portion of the San Joaquin River  
25 that is south of the -- south of the delta -- and I

1 can't remember exactly what our southern point --  
2 definition point --

3 Jeff, do you remember?

4 MR. STUART: I believe it was up to the  
5 Stanislaus.

6 MS. NEUMAN: Okay. That was Jeff Stuart, and  
7 he said the Stanislaus -- up to the Stanislaus. So  
8 from south of the delta to the Stanislaus.

9 And you might remember me talking about the  
10 fact that we have to do this critical habitat  
11 designation before we have a recovery plan for the  
12 species in place. And it puts us in this conundrum  
13 because our responsibility is to protect this habitat  
14 that's essential for the conservation of the species.  
15 And as the CHRT Team had their discussions, a lot of  
16 people sitting around the table felt that opening up  
17 the Feather River and the Yuba River and the  
18 San Joaquin River were going to be important for the  
19 conservation of the species and the recovery of the  
20 species. Because unless you establish another  
21 spawning population in another river somewhere, and  
22 ideally a river that's in a different watershed from  
23 the Sacramento, they felt that conservation and  
24 recovery was not possible, that you could not achieve  
25 that. And at the same time, we felt like we needed

1 to get some more input from the public on historic  
2 use of these areas, information on the habitat  
3 parameters that we've outlined in our rivers, food  
4 resources, water quality, water flow, the list, you  
5 know, you might recall, substrate type. That until  
6 we got more information on what those parameters  
7 looked like in these current -- currently unoccupied  
8 areas, that it would be very difficult to make that  
9 connection between designating that unoccupied  
10 habitat now, especially without a Recovery Plan. So  
11 really are looking for more information on unoccupied  
12 areas, especially historical distribution in and use  
13 of the unoccupied areas in the Central Valley,  
14 primarily the Feather and the Yuba Rivers. And then  
15 in addition I would add to that information about the  
16 particular habitat parameters that may have existed  
17 there historically or that exist there now.

18 MR. HAUSSNER: You talk about the San Joaquin  
19 River, and I guess the northern end of where you're  
20 concerned about is south of the delta, whatever -- is  
21 that the legal definition of the delta? And then the  
22 southerly end you're concerned about is where the  
23 San Joaquin and Stanislaus meet? Is that what I  
24 understand to be where you're interested in?

25 MR. STUART: Right. The legal delta ends at



1 Vernalis, and then there's, oh, about 20 miles of  
2 that stretch from Vernalis and Vernalis and  
3 Stanislaus. Stanislaus is a tributary right now that  
4 we have the highest quality water on, so the federal  
5 nexus there, controlled water flowing. And we felt  
6 that out of the current tributaries that are down  
7 there, the Stanislaus provides us with the greatest  
8 picture for potentially creating another spawning  
9 area for green sturgeon. The other tributaries, the  
10 Merced, the quality does not have currently the  
11 federal nexus to do controlled flow on those rivers.

12 MR. HAUSSNER: Okay. Thank you.

13 MS. NEUMAN: You're welcome.

14 Yes, Alicia.

15 MS. SEESHOLTZ: I guess I'm confused by your  
16 definition of unoccupied because we know that there  
17 are sturgeon in -- green sturgeon both the Yuba and  
18 the Feather. So I'm wondering why those rivers are  
19 ending up in this category.

20 MS. NEUMAN: It's just the upper Feather and  
21 the upper Yuba beyond where the dams are.

22 MS. SEESHOLTZ: Okay. Okay.

23 MS. NEUMAN: I already alluded to this just a  
24 little bit, but we need to get some better estimates  
25 of what the economic impacts of this critical habitat

1 designation are going to be. And I know a lot of you  
2 have already said that you can provide us with some  
3 better information on what you feel the economic cost  
4 to this designation will be. Please keep in mind,  
5 though, when you're assembling these comments that  
6 your economic costs should be restricted to the costs  
7 associated only with the green sturgeon critical  
8 habitat designation, not associated with what you  
9 would already have to do as a result of the listing  
10 or what you are already doing because you need to  
11 preserve salmon critical habitat or steelhead  
12 critical habitat.

13 MR. HAUSSNER: Let's take an example.  
14 Through Biological Opinions, there are windows for  
15 dredging. And by designating certain of those areas  
16 critical habitat, currently you may have a window  
17 that says you've got two or three months in order to  
18 dredge. This could reduce that even further down to  
19 a two-week period or not at all and, as a result,  
20 would have a massive economic impact. Because  
21 currently you're restricted to this one little  
22 window, and that has some impact upon equipment  
23 availability. But if you further restrict that  
24 window, then you may have a massive -- so -- so there  
25 is no way around that because you can't say in the

1 abstract, "Well, yeah, if it wasn't for this habitat,  
2 I could dredge over here in December. But reality, I  
3 can't dredge in December because of another opinion  
4 going on by your own agency." So you're going to  
5 have to come up with a better decision-making process  
6 for that.

7 MR. STUART: Clarify that, the windows right  
8 now are not likely to adversely affect our  
9 designation. We do do formal consultations that  
10 extend the dredging outside of those windows down in  
11 the Stockton and Sacramento channels. So it's how  
12 much pain the applicant's willing to endure. If you  
13 want it to not likely adversely affect and not have  
14 to go through the formal biological opinion process,  
15 you're going to have to stick within the windows. If  
16 you decide that you're willing to go through the  
17 formal biological opinion process, then you can go  
18 outside of those windows. But we have to address the  
19 impacts of those projects on our species and the  
20 critical habitat. So that's just a clarification of  
21 the windows for dredging or other activities where we  
22 consider it not being the first step versus having to  
23 go to the formal opinion and address all of the  
24 adverse impacts of that project.

25 MR. HAUSSNER: And I don't deny that. On the

1 other hand, now that you got into the formal  
2 consultation process, you've increased the costs.  
3 And can you apply it to the green sturgeon or do you  
4 apply it to the salmon? What Melissa is saying is  
5 you can't apply it to the green sturgeon. But in  
6 reality, that's what's driving you to have to pay  
7 that cost. And once you got to the 50,000 or  
8 \$100,000 level, depending on where you are, that may  
9 get you out of this thing. So there are costs  
10 associated with doing a formal consultation.

11 MS. NEUMAN: I think a lot will depend on  
12 whether those windows are adequate for protecting  
13 green sturgeon critical habitat. If we decided that  
14 those windows are appropriate -- and, really, it's  
15 going to be on a per-project sort of basis that our  
16 biologists are going to have to, I think, establish  
17 that -- or it could be through, you know, a global  
18 type of analysis that addresses all dredging projects  
19 that are going on. But we certainly are cognizant of  
20 the fact that if those work windows change in order  
21 to protect green sturgeon critical habitat, that that  
22 is a cost that we should be accounting for over and  
23 above what we're using for salmon.

24 MR. HAMPTON: Melissa?

25 MS. NEUMAN: Yes, Doug.

1           MR. HAMPTON: Also, the way I understood it,  
2 the changing of windows, especially in -- we're  
3 talking about the delta -- the delta and the  
4 San Francisco Bay, that wouldn't be incremental above  
5 what you're already doing for the species listing.  
6 The critical habitat designation doesn't change. I  
7 mean we're -- we're -- I know when I'm doing  
8 consultations down there, we're assuming that those  
9 fish -- the juvenile fish, the sub adults -- are  
10 there year round. So the critical habitat  
11 designation is not anything incremental above and  
12 beyond what the species listing is purportedly doing  
13 already.

14           MS. NEUMAN: What the biologists at NMFS  
15 needs to do is have a separate section in that  
16 Biological Opinion that talks specifically about  
17 critical habitat. But very often that analysis, at  
18 least as far as I understand it, will be a very -- it  
19 will be -- it will be -- you know, it will be  
20 parallel to what's done in terms of the analysis  
21 under the jeopardy standard. We might be using  
22 different language, and we'll certainly be looking at  
23 the habitat characteristics. The focus would be on  
24 them. So -- but the consultation, you're correct,  
25 Doug, it still happens. Because if the project is

1 something that may -- correct me if I'm wrong with  
2 the language -- likely to adversely affect or may  
3 adversely affect, if that's the determination of the  
4 action agency, you're doing a consultation no matter  
5 what. It's just that the biologist who's conducting  
6 the consultation and perhaps the -- the application  
7 materials that are -- are submitted will have to  
8 specifically say something about how those activities  
9 may affect the habitat characteristics.

10 MR. HAMPTON: Right. Right. I was just  
11 trying to address like in terms of additional  
12 costs --

13 MS. NEUMAN: Right.

14 MR. HAMPTON: -- that would be incurred on  
15 dredging.

16 MS. NEUMAN: The consultation still happens.

17 MR. HAMPTON: It's not going to be -- you're  
18 not going to incur any additional costs from the  
19 critical habitat designation that you haven't already  
20 incurred just from the species being listed.

21 MR. WOODBURY: Well, that may not be true.  
22 If the activity is not harming the species themselves  
23 but is harming the habitat, then you would incur  
24 extra costs to protect the habitat, not the species.  
25 But since the species in the bay is year round, we're

1 going to be doing formal consultations on dredging  
2 projects. So the question is, for a dredging  
3 project, what's the impact to the species. What's  
4 the impact to the habitat. And then what's the  
5 difference in cost between those two. So that's what  
6 we're asking for is just looking at the habitat and  
7 those PCE food resources. So you may not be harming  
8 the fish, but if you take all their food, what's the  
9 cost of mitigating for that loss of food? So that's  
10 what we're asking you for is that. Not so much how  
11 you're affecting the species, but just on those PCEs.  
12 And dredging is a good example of that.

13 MS. NEUMAN: Right.

14 MR. HAMPTON: That's correct.

15 MS. NEUMAN: And another good example is in  
16 Willapa Bay where carbaryl was used to -- in oyster  
17 beds in order to clean them out of -- or to get rid  
18 of the ghost shrimp in these areas that were going to  
19 be seeded with oysters. Well, it turns out that this  
20 particular pesticide also killed ghost shrimp. And  
21 we know now, based on the diet preferences of green  
22 sturgeon when they enter Willapa Bay, at least, that  
23 ghost shrimp make up a large percentage of their  
24 diet. And so that's sort of an interesting case  
25 because the pesticide removed a food source which was

1 considered to be, you know, a primary constituent  
2 element of the habitat. Of course it's connected to  
3 the species itself, too. And I'm sure in a part of  
4 that consultation, if and when it happens, the  
5 adverse affect on the green sturgeon itself will also  
6 be taken into account. But it's the teasing apart of  
7 these two things that gets a little -- it certainly  
8 gets a little hard to define at some level. And then  
9 to try and figure out what the costs associated with  
10 modifying a project -- it does get a little tough to  
11 do. But we'll have to figure it out. And  
12 unfortunately we don't have much of a history that  
13 allows us to say how it's going to go yet. We just  
14 listed these guys.

15 MS. JOHNCCK: I have a point of order. Are  
16 you -- have you completed the presentation, or are  
17 you still going? Because I would like to get a sense  
18 of -- I have a lot of things --

19 MS. NEUMAN: A lot of questions?

20 MS. JOHNCCK: Yeah, a lot of questions, a lot  
21 of points --

22 MS. NEUMAN: Okay.

23 MS. JOHNCCK: -- a lot of information that  
24 will help you and help all of us figure out what  
25 we're going to do between now and June 30th --



1 MS. NEUMAN: Sure.

2 MS. JOHNCK: -- or between now -- you know,  
3 we have the 7th, I mean --

4 MS. NEUMAN: Okay. I think I'm almost done.

5 MS. JOHNCK: So -- and I -- I -- so if you  
6 would finish, because I --

7 MS. NEUMAN: Sure.

8 MS. JOHNCK: -- I'm holding back and we're  
9 getting into substantial discussion, which is very  
10 important --

11 MS. NEUMAN: We are.

12 MS. JOHNCK: -- but I just want to get a  
13 sense, too -- and, also, how -- did I miss something  
14 you said about today? We're not going to be here  
15 until 5:00, are we?

16 MS. NEUMAN: We -- I am going to be here  
17 until 5:00 because I'm not sure -- of course, if I'm  
18 sitting here from noon until 5:00 and nobody is  
19 coming into the room, you know, I might end early.  
20 But officially we're here until 5:00, yeah.

21 MS. JOHNCK: Okay. But we can figure out how  
22 much time we need to get --

23 MS. NEUMAN: Absolutely.

24 MS. JOHNCK: -- to the questions --

25 MS. NEUMAN: You can come and go as you

1 please. We'll probably --

2 MS. JOHNCCK: Okay. So if you would finish --

3 MS. NEUMAN: -- take -- even -- even if we  
4 are all here at noon, we'll probably take a break for  
5 lunch.

6 MS. JOHNCCK: All right.

7 MS. NEUMAN: I think I'm done. Here we are.  
8 Okay? So if you would also like to submit public  
9 comments via the internet, fax, mail, here is the  
10 important contact information for submitting your  
11 comments. Again, you can also view today as being  
12 your -- your chance to submit a public comment.

13 So I think with that, I am done. I think  
14 what we'll do, instead of breaking out into  
15 discussion groups, we'll just get some of the NMFS  
16 folks up here at the front of the room, and we'll  
17 start a question-and-answer period, and that will  
18 become a part of the public record. And then if  
19 people feel the need to make a more formal public  
20 comment to Sandy, we can also do that once our  
21 question-and-answer period wraps up.

22 MR. WOODBURY: Melissa?

23 MS. NEUMAN: Yes, David.

24 MR. WOODBURY: Introduce us.

25 MS. NEUMAN: Oh, sure.

1 Russ Strach, the Assistant Regional  
2 Administrator for the Protective Resources Division,  
3 who's based here in Sacramento, walked into the room  
4 a bit ago. And he might like to address you all.

5 MR. STRACH: Well, I was just going to join  
6 you up front.

7 MS. NEUMAN: Okay. And does everybody know  
8 Jeff Stuart?

9 Jeff, why don't you give a brief  
10 introduction.

11 MR. STUART: My name's Jeff Stuart. I've  
12 been with NMFS for about eight years now. And my  
13 area of influence is pretty much the delta from --  
14 well, it used to be all the way from the Carquinez  
15 Straits, but now my colleague here, Dave Woodbury,  
16 has taken Carquinez, Benicia --

17 MR. WOODBURY: You're welcome.

18 MR. STUART: -- and Antioch.

19 MR. WOODBURY: You're welcome.

20 MR. STUART: But anyways, I've done -- I did  
21 my graduate work with white sturgeon way back at  
22 UC Davis when Serge Doroshov was first starting with  
23 white sturgeon and a few green sturgeon. And what  
24 I'd like to recommend is don't pick them up with bare  
25 hands because you won't have any fingers left. Their

1 scutes are really sharp.

2 So, anyways, sturgeon are kind of near and  
3 dear to my heart. And I've been working now with  
4 Melissa for about a year and a half now, two years on  
5 the critical habitat designation.

6 MS. NEUMAN: Yeah.

7 MR. STUART: And eventually we'll be rolling  
8 out our Recovery Plan, which I'll be heading up in  
9 this office. I'll be the Recovery person  
10 spearheading that. And I live down in Modesto, so  
11 that's why I know the Stanislaus so well. And we do  
12 get sturgeon of unknown species down there. But we  
13 do frequently get sturgeon all the way up to Knights  
14 Ferry on the Stanislaus. So that's my little  
15 two-cent worth.

16 Any questions?

17 MS. NEUMAN: Did anybody want to take a short  
18 break to go to the bathroom?

19 MS. JOHNCK: Yes.

20 MS. NEUMAN: Should we take a short break?  
21 Okay. And, also, feel free to glance more closely at  
22 those maps up on the wall while you're going to the  
23 bathroom or returning from the bathroom. So, yeah,  
24 five minutes. Okay?

25 (Brief recess.)

1 MS. NEUMAN: Okay. So I'd like to remind  
2 everyone before we start our question-and-answer,  
3 please state your name for Sandy and spell your last  
4 name for Sandy so that she gets the record correct.  
5 And I don't know -- and one at a time please speak.  
6 So if we get into some back and forth, you know, curb  
7 that, please. Let one person speak, and then, you  
8 know, we'll go around and let people respond. Okay?  
9 If you want to direct your question to one of us  
10 specifically, Doug, Jeff, David, or me, that's fine,  
11 too, or just ask your question, and we'll decide who  
12 will answer.

13 MR. HAUSSNER: And maybe a general question,  
14 you could tell us because Jeff already asked the  
15 question about getting the slides. Maybe you can  
16 tell us exactly what's on the web site that's  
17 available, like the Economic Team you talked about,  
18 and you have the Habitat Critical Team, and the  
19 Biological guys. How much stuff is available on the  
20 web site that is referenced? Then we don't have to  
21 bother you as much today.

22 MS. NEUMAN: Okay. Everything, all of the  
23 supporting documents and the rules are available  
24 here. They're also available on our web site, which  
25 is --

1 MR. HAUSSNER: It's nmfs.gov?

2 MS. NEUMAN: I think it's -- is it  
3 www.swr.noaa.nmfs.gov?

4 MR. STUART: Oh, Lordy.

5 MS. NEUMAN: You know what, go here.  
6 Everything is here.

7 MR. HAUSSNER: But that actually lists the  
8 entire Economic Team as well as the Habitat Team and  
9 all the biologists that were involved in listing --

10 MS. NEUMAN: No, no, no. No, we don't reveal  
11 the names of the people who have helped us.

12 MR. HAUSSNER: Okay. We're going to ask for  
13 that specifically because we need to know who they  
14 are in order to know what their background is to  
15 determine whether or not they were --

16 MS. NEUMAN: I understand. I'm only kidding.  
17 I just saw an announcement yesterday that --

18 MR. HAUSSNER: Well, DOD does give us  
19 names --

20 MS. NEUMAN: -- came out --

21 MR. HAUSSNER: -- as an example.

22 MS. NEUMAN: Right. Well --

23 MR. STUART: No basis.

24 MS. NEUMAN: -- there's a former commercial  
25 fisherman who's very mad at California Department of

1 Fish & Game and NMFS right now and has put out some  
2 death threats -- some serious death threats. This  
3 happened yesterday before I came up here for this  
4 meeting. My husband is on eggshells, "Call me. Let  
5 me know you're okay." Anyway -- no, but we're happy  
6 to -- I can just tell you right now who was on our  
7 Critical Habitat Review Team: David, Jeff. I was  
8 actually not on the team. I was not a voting member  
9 of the team. Susan Wang, again, not a voting member  
10 of the team. We had Bill Poitras from the U.S. Fish  
11 & Wildlife Service. We had Rich Corwin from Bureau  
12 of Reclamation. We had Steve Lindley from our  
13 Southwest Fishery Science Center in Santa Cruz. We  
14 had Mary Moser from our Northwest Fishery Science  
15 Center in Montlake, Washington. We had Steve Stone  
16 from our Northwest Regional Office in Portland,  
17 Oregon. We had Julie Weeder --

18 Thanks guys.

19 Julie Weeder from our Southwest Regional  
20 Office in Arcada.

21 Okay. And we are required to have only  
22 federal biologists on our Critical Habitat Evaluation  
23 Team, just so some of you out there aren't asking,  
24 "Well, you know, why couldn't I be on the team?"

25 MR. KLIMLEY: They have good people on it.

1 MS. NEUMAN: And then Industrial Economics is  
2 is the group who conducted the economic analysis.  
3 They're based out of Cambridge, Mass. And Leslie  
4 Genova was the senior analyst -- G-e-n-o-v-a -- on  
5 the project.

6 MR. HAUSSNER: I got it right the first time.

7 MS. NEUMAN: She's going on maternity leave  
8 tomorrow. So Ann LaRue -- L-a-R-u-e -- will be  
9 taking over for her. And I believe she's actually  
10 based in the San Francisco area. Mark Ewen is also a  
11 contact at Industrial Economics. E-w-e-n.

12 Okay. But all of the -- biological report,  
13 the economic analysis, our reference list, the  
14 Federal Register Notice -- probably missing a couple  
15 other things -- are all available at the  
16 [www.regulations.gov](http://www.regulations.gov) web site. And they're also  
17 available on the Southwest Regional Office of NMFS'  
18 web site.

19 MR. HAUSSNER: And all the reference  
20 documents are publicly accessible somewhere? Because  
21 one of the things about reference documents is that  
22 if you're not part of an academic system, they're not  
23 necessarily available to the general public.

24 MS. NEUMAN: We -- that's very true. We've  
25 gotten a comment, actually, on that, and we're



1 currently compiling a list of our economic electronic  
2 references on a CD. And so what we will likely do is  
3 make that available at the [www.regulations.gov](http://www.regulations.gov) web  
4 site.

5 MR. HAUSSNER: In time to make comments by  
6 November 7th?

7 MS. NEUMAN: Perhaps. I mean the reference  
8 list is there.

9 MR. WOODBURY: Yeah, I have reference lists.

10 MR. HAUSSNER: So I can go to Santa Rosa, and  
11 I can read everything?

12 (Multiple speakers.)

13 MR. WOODBURY: I have PDFs of probably most  
14 of the references that were used. And so if you  
15 contact me -- and, Jim, you have my contact  
16 information, and I'll send you those PDFs.

17 MR. HAUSSNER: Thanks.

18 MR. KLIMLEY: Josh Isreel is also creating a  
19 database. I don't know if he has PDFs or whether you  
20 can get them or not. I don't know what the --

21 MR. HAUSSNER: I'm done.

22 MR. STUART: What Dave doesn't have, I  
23 probably do have. We've got a pretty extensive green  
24 sturgeon library between the two of us.

25 MS. NEUMAN: I was just thinking of -- David,

1 you have a card --

2 MR. WOODBURY: I do.

3 MS. NEUMAN: -- with you with your e-mail  
4 address.

5 Jeff, do you have any cards?

6 MR. STUART: Up at my desk.

7 MS. NEUMAN: Okay. Hopefully --

8 MS. JOHNCK: Melissa, one of our public  
9 comments -- and this sort of begins my questioning --  
10 I'll cover some things, and other people can chime in  
11 if they have some more. But here again, this is  
12 procedural -- procedural mostly and -- on the public  
13 comments. So my task force has asked for an  
14 extension beyond November 7th. We've asked for six  
15 months. And the reason we've asked for six months is  
16 because we believe that what's been developed so far,  
17 there is a lot of uncertainty, and some of the  
18 information is really limited. And what our task  
19 force would like to do is assemble a significant  
20 compendium of information, biological as well as  
21 economic, that we think will produce a superb  
22 critical habitat designation. Our organization has a  
23 track record of 25 years of a very collaborative  
24 approach to working with the protection of the  
25 species as well as keeping the economic aspects --

1 the San Francisco Bay resource support. So -- and  
2 we've been successful in collecting funds -- federal  
3 funds for scientific studies. David knows we've  
4 worked quite significantly over the years to  
5 instigate and initiate programs for that. So we have  
6 quite a substantial amount of expertise. And so  
7 that's why we think it's going to take six months to  
8 do that.

9 Now, given that, I realize that if that was  
10 granted, it would put you over the -- your ability to  
11 develop a critical habitat designation in time for  
12 the court order. That's not going to happen. So I  
13 would like to have some more discussion about  
14 understanding that. Number one, what's the  
15 likelihood of some kind of extension. Six months,  
16 you know, may -- I understand may not be feasible.  
17 And so -- but I do think we do need something beyond  
18 November 7th. I mean I think that -- I think this is  
19 in all of our interest, yourself as well. So maybe  
20 just some more comments of what you think. And do I  
21 need to send something more in about this? I've  
22 already sent a letter, you know, requesting that. If  
23 I need to do -- or what more do I need to do on this  
24 specific request, and what's the likelihood of some  
25 granting of that? Can you speak to that now?

1 MS. NEUMAN: I think we can. Six months is  
2 just not going to be possible. Typically when we  
3 granted extensions on public comment periods, they've  
4 been about 30 days. We've gotten a couple of  
5 requests from different agencies for an extension on  
6 the public comment period here, and I would think  
7 that we could probably extend it by at least 30 days,  
8 perhaps 45. I think if we start pushing it to 60  
9 days, what happens then is it brings us to the end of  
10 the year. And quite honestly, when I look back at  
11 what it took to generate the proposed critical  
12 habitat designation, how much time it took, and just  
13 trying to gauge the amount of interest we've gotten  
14 so far in the proposed critical habitat designation,  
15 I think we're going to have a lot of the things -- a  
16 lot of things to address. And I think we're going to  
17 have to allow ourselves December, January, February,  
18 and March to start addressing these comments and  
19 finalizing the rule because we'll have to submit this  
20 final rule to our headquarter's office probably at  
21 the end of March, believe it not, in order for it to  
22 get published by the end of June. So I'm thinking a  
23 30- or 45-day extension is definitely doable. I  
24 would prefer -- I think that we can just talk about  
25 that. You know, you and Jeff and Doug and David and

1 I can just e-mail back and forth with you. And, you  
2 know, you can go back to your constituents and say  
3 "Hey, you know, 35, 45 -- 30 to 45 days" --

4 MS. JOHNNCK: Okay. That is possible. Yeah.

5 MS. NEUMAN: -- "is a possibility, and what  
6 can we get together in that amount of time," and then  
7 just get back to us and let us know. And I think we  
8 can probably have another face-to-face meeting with  
9 you in the San Francisco area if you'd like to do  
10 that so we can sit down again and hammer some things  
11 out. But we probably should keep that meeting just  
12 between us and the coalition. If we started inviting  
13 lots of other people in -- I mean not to say that  
14 other people wouldn't have some important  
15 contributions -- and you can invite whoever you'd  
16 like to. But we'd like to keep the conversation  
17 focused and concentrated.

18 MS. JOHNNCK: I understand. Okay. That's  
19 great. That's helpful.

20 MS. NEUMAN: Okay?

21 MS. JOHNNCK: Now -- okay. Now, on that, so  
22 June 30th, let's say this goes forward exactly as it  
23 is -- or -- well, let's just say this was published  
24 today without any public comment from the geographic  
25 scope. What happens? And I'll tell you what I sort

1 of suspect will happen, but I'm not going to say  
2 exactly sure. I did go through the decision-making  
3 and comments on the salmon critical habitat, and I'm  
4 actually kind of looking at that. And, of course,  
5 the designation of salmon critical habitat, we are  
6 dredging the channels. Of course, that's where the  
7 federal activity and federal agency comes in. Of  
8 course, the Army Corps of Engineers has a certain  
9 amount of mileage of navigation channels, and, of  
10 course, this will affect the Army Corps of Engineers'  
11 activity, but also affects us because we have  
12 channels, too, that we get permitted from the Army  
13 Corps of Engineers, approval from DPA as well.

14           So what -- and I'd like to hear more of what  
15 I anticipate will happen as of June 30th is that all  
16 permits for dredging are up for re-negotiations. The  
17 entire bay and delta would be up for re-negotiations.  
18 There effectively would not be any permit, unless  
19 something was done obviously between -- here again,  
20 we don't know exactly how this is going to end up.  
21 But I'm just looking at the broadest possible scope  
22 here as happening. So that every permit must be  
23 re-negotiated. And there actually would be a  
24 cessation of navigation channel operability without  
25 any permit. Is that the case as of June 30th that we

1 would have to go through getting all new permits for  
2 dredging, and you would have to go through a  
3 determination of whether we are adversely affecting  
4 any of the PCEs?

5 MR. WOODBURY: That's correct.

6 MS. JOHNCK: Is that true?

7 MR. WOODBURY: Yeah. For those that don't  
8 know, in the San Francisco Bay Region, we currently  
9 have a Programmatic Biological Opinion in place for  
10 all dredging activities that fall under the long-term  
11 management strategy for the placement of dredging  
12 materials in San Francisco Bay. It was written back  
13 in 1998. And I'm currently in the process of  
14 updating that opinion to address both the listing of  
15 green sturgeon and now the proposed critical habitat.  
16 So when that is -- is concluded, then we'll have a  
17 new Biological Opinion that will include an  
18 assessment on both the critical habitat and on the  
19 fish themselves. And so dredging will not stop on  
20 June 30th, 2008. All dredging activities will be  
21 covered.

22 It's an interesting question for activities  
23 that are ongoing. What are we going to be doing for  
24 those. And we work with our federal agencies to  
25 address -- probably prioritize the activities that

1 are currently ongoing. Dredging, of course, being  
2 very high in the Bay area at least, but for other  
3 activities as well, to prioritize where we're going  
4 to put our effort into addressing this -- but I don't  
5 see activities such as dredging halting on June 30th,  
6 2008, or whenever this rule is published. We'll  
7 anticipate that date, and we'll be proactive in  
8 getting coverage to those activities that would be  
9 occurring then.

10 MR. SUDA: June 1st is the opening of many  
11 windows in the Bay. And my group of people are  
12 involved in running EAs and working with you. We're  
13 going to have to talk a great deal about what you  
14 think is going to happen so that we can have things  
15 ready to go because I have a lot of project managers  
16 and a lot of sponsors that want things started by the  
17 1st of June in other places. So that's going to  
18 be -- you know, if we have to do formal  
19 consultations, that takes a little bit more time than  
20 we would like to all admit to. I'm not saying  
21 anything out of school. You and I have worked  
22 together in the past. We would have a lot of  
23 concerns about that. So...

24 MR. WOODBURY: Yes, because of the life  
25 history of this fish, it's unlike salmonids that use



1 the lower bays and estuaries and portions of the  
2 delta as migration corridors where there are periods  
3 of time when those species -- the salmonid species  
4 are not there. So we can have activities being  
5 conducted at that time. So you don't have to go  
6 through this formal consultation process oftentimes.  
7 Because green sturgeon are a year-round species,  
8 bethnic species, it's very difficult for NOAA  
9 Fisheries to conclude a "not likely to adversely  
10 affect" call for this. And so most of our  
11 consultations I envision as being unfortunately  
12 formal consultations. And that's why we're going to  
13 try to look at programmatic opinions, such as  
14 dredging and do them programmatically as often as we  
15 can.

16 MR. STUART: For the last two large opinions  
17 I did for the Sacramento Ship Channel and Stockton  
18 Ship Channel, I did address green sturgeon in those  
19 opinions actually for -- and the Port of Stockton  
20 requested that we re-negotiate -- or re-initiate --  
21 there we go -- it's been a long day already --  
22 re-initiate the consultations in light of the  
23 sturgeon listing in 2006. So these were the major  
24 ship channels. We've already addressed the take of  
25 the species. The critical habitat will be just

1 another add-on to the end of that. And I will be  
2 working with the Corps -- different biologists with  
3 the Corps that I worked with the last two or three  
4 years on those two ship channels. Smaller projects  
5 usually come up, you know, not as regularly as these  
6 major projects that have a five- or ten-year life  
7 span to them. So we try to address those on a  
8 case-by-case basis. But as Dave said, if we can get  
9 a programmatic that works for the whole delta, then  
10 that's the route that we'll go. And it will probably  
11 be much easier if everybody knows what's on the table  
12 and what they have to do in order to abide by our  
13 needs. I think that will be much more...

14 MS. NEUMAN: Doug.

15 Sorry, Pete.

16 Doug, did you have something you wanted to  
17 add in response to that comment?

18 MR. HAMPTON: Yeah. To the Corps, also --  
19 and this is not so much -- I mean it applies  
20 throughout the range of the species. But speaking  
21 specifically to the Sacramento River, consultations,  
22 things that -- you know, they have windows up there  
23 as well that they're pretty accustomed to. But we're  
24 already considering, just like Jeff was saying, the  
25 species -- the fish themselves in the consultations

1 that are going on now, and any consultations that  
2 have been initiated since the rule -- the proposed  
3 rule came out are conferenced opinions. So things  
4 that are looking towards that June 1st  
5 construction -- in-water construction are already  
6 taking into account that the critical -- the proposed  
7 critical habitat listing and conference opinion. And  
8 then it's pretty easy after the final rule is  
9 published to just send out a letter that says these  
10 are already slated.

11 MR. SUDA: When are we going to see the  
12 programmatic, you know, coming out?

13 MR. WOODBURY: The -- we're going to be  
14 assembling a team. And right now we have a list of  
15 questions developed and that my team coordinator,  
16 Gary Stern, and I will be meeting with both you and  
17 Fari with the Corps to go over those lists and to  
18 develop that opinion. So we are -- we are actively  
19 working on it. And I always say I hope that it  
20 doesn't take too long, but, again, this is a -- it's  
21 a large opinion --

22 MR. SUDA: I understand.

23 MR. WOODBURY: -- that covers all the  
24 dredging. So I'm not prepared to say a date because  
25 once you put a date on, then you're really locked in.

1 But certainly before this goes final, we're going to  
2 want something out there.

3 MR. SUDA: I understand.

4 MR. WOODBURY: So --

5 MR. SUDA: I'm just trying to look at doing  
6 the EAs and incorporating anything we know ahead of  
7 time because we're getting -- starting to do those  
8 things now.

9 MR. WOODBURY: Right. As far as the EA goes,  
10 where you're doing assessment on potential affects on  
11 either the fish or the critical habitat, those should  
12 be being done now. So I don't know how the  
13 biological opinion might affect that other than  
14 potential mitigation measures that might be our  
15 minimization measures that might be incorporated into  
16 the project themselves, which we're still -- we still  
17 haven't developed yet. So we still have a little bit  
18 of a ways to go with the LTMS Program to look at this  
19 fish, look at the habitat, look at dredging, and to  
20 see where we're going to go with PMPs. You know,  
21 there's a -- again, getting back to windows, because  
22 this fish is there year round, there may not be an  
23 opportunity to use windows like we've done for  
24 salmonids. So we're going to have to be a little bit  
25 more creative on how we do our minimization measures

1 because we won't be able to avoid them completely.  
2 There are times when the adults come in to spawn or  
3 during the summertime they come in -- I've been  
4 looking at that data the last week, so I'm coming up  
5 to speed on exactly when these fish are coming into  
6 the system and what they're doing in the system. So  
7 we're going to have to be creative on how we address  
8 dredging in green sturgeon and their habitat.

9 MR. KLIMLEY: One of the problems --

10 MS. NEUMAN: Let's get back to Pete Klimley.

11 MR. KLIMLEY: One of the problems is getting  
12 enough -- well, in your case, we tagged 100 fish, and  
13 we have distribution monitors. So that's really a  
14 godsend for you. We -- we hope that -- we're a  
15 subcontractor to the Army Corps. We'll be doing  
16 telemetric studies of the salmon smolts. We'll  
17 release lots of them and look at them and see what we  
18 see. But green sturgeon are much more difficult  
19 because we haven't been able -- for instance, we  
20 would like to do some shipboard tracking of them and  
21 provide you with information. It was removed from  
22 the first year of the contract. But there's a lot of  
23 interest from you and from Tom. We hoped to do that.  
24 And maybe it's possible to do some of that before  
25 your opinion. But I will say that the Army Corps has

1     been gracious enough to fund some of it, which will  
2     be good science.

3             MS. NEUMAN:  I just wanted to get back to  
4     Ellen's original comment and ask Ellen, the  
5     coalition, the primary spatial area of concern for  
6     the coalition is inside the bays and the delta, but  
7     not outside the Golden Gate, or is that untrue?  Does  
8     some of your dredge spoil out into the coastal  
9     environment?

10            MS. JOHNCK:  Out.  Yeah.

11            MS. NEUMAN:  Because that's --

12            MS. JOHNCK:  I mean we're -- you know, I'll  
13     go out -- I mean my -- the geographical scope of our  
14     membership, per se, and the activities that we cover  
15     are outside into the ocean, yep, into the Gate and  
16     through the Central Bay, South Bay, delta.  And, of  
17     course, we're greatly allied with California Marine  
18     Affairs and Navigation Conference and other entities  
19     up and down the coast.  And just like the sturgeon is  
20     connected, we're very connected --

21            MS. NEUMAN:  Right.

22            MS. JOHNCK:  -- because we support each  
23     other.  And the Pacific Merchant Fishing Association  
24     goes up and down the entire West Coast and on around  
25     the world.  So -- but, really -- yeah, outside the

1 Gate, yeah.

2 MR. HAUSSNER: But just to further up, CMAC  
3 is a part of the coalition to signators to her  
4 letter, and we represent every port between the City  
5 of Monterey and Crescent City in California. So every  
6 last one of them is a member of ours, and our board  
7 of directors voted this past week to be part of the  
8 coalition.

9 MS. NEUMAN: Okay. One important difference  
10 between this proposed designation and what is in  
11 place for our listed salmonids is that this  
12 designation does extend out into the coastal  
13 environment. So in case I didn't say that during  
14 the presentation, one important difference here is  
15 that we are considering this coastal area -- and it's  
16 a large swath of coastal environment from Monterey to  
17 the Strait of Juan de Fuca, and I think we explained  
18 why. It's because of the biology of the species and  
19 of the time that an individual actually spends out in  
20 the coastal environment is very high, especially  
21 compared to other sturgeon species. And maintaining  
22 that migratory corridor for them is very important  
23 because they are going somewhere -- they're going  
24 north for a reason, and we think we know why they  
25 enter estuaries. We're not sure why they go to

1       southeastern Alaska and up to the British Columbian  
2       coast yet, but we're trying to get to that.

3               So anyway, that is an important difference.  
4       And it's an area of economic concern, I would think,  
5       as well because those economic costs were taken into  
6       account, and they are over and above what exists for  
7       any other critical habitat designation that might be  
8       currently in place.

9               MR. KLIMLEY: Let me also inject a little  
10       caution in terms of the tracking that's been done has  
11       been done with pop-up tags and using light  
12       measurements for position that is really inaccurate.  
13       They're plus or minus 1 degree of latitude. We're  
14       talking plus or minus 60 nautical miles. So we know  
15       that the green sturgeon are moving along the shelf.  
16       We don't know exactly where they are. And the only  
17       really way to do that is to follow -- put tags on  
18       them and follow the fish if we want to find out if  
19       they're right in that place, you know, where you're  
20       dumping dredging disposal, you know, off South Beach  
21       so many nautical miles in that one latitude. You  
22       would need to do some tracking in the future to find  
23       that out.

24               MR. WOODBURY: Just to clarify, Pete, we did  
25       use fixed arrays up and down the coast to determine



1 the extent and pop-ups. So we had fixed arrays --

2 MR. KLIMLEY: Well, you have both.

3 MR. WOODBURY: We had fixed arrays --

4 MR. KLIMLEY: But the problem with the fixed  
5 arrays is they're a gauge. So you find out they go  
6 right to there, but you don't know if they were at  
7 this one site where they're disposing of things and  
8 so forth.

9 MS. NEUMAN: That's very true.

10 MR. KLIMLEY: You know. And thank God there  
11 are fixed arrays because they give us a lot of  
12 information. The fixed arrays also are plotting  
13 north and right outside San Francisco because he was  
14 talking about San Francisco Bay. That's just why I'm  
15 raising this question, for his concern. Now there's  
16 an array off of Point Reyes just recently installed.  
17 And there may be another installed a little farther  
18 up the coast. So...

19 MS. NEUMAN: For those of you who don't know,  
20 we have about -- I think it's about two -- a few  
21 hundred fish that were -- that have hydroacoustic  
22 tags surgically implanted into them. And they were  
23 tagged all around 2002 and 2003. And there are these  
24 arrays -- these sensing arrays that are set up along  
25 the coast in a variety of different areas that will

1 detect when a tagged fish passes by it. So  
2 unfortunately it gives us this little point-in-time  
3 piece of information about where a fish was, but it  
4 doesn't tell us how much time it spent in that area.  
5 Certainly it doesn't tell us where it came from or  
6 where it's going to. So that information is limited.  
7 It gives us a sense of how far north they go. It can  
8 give us a little bit of a sense of how much time a  
9 fish might spend in that area because -- for example,  
10 there's an array off of the northwestern corner of  
11 Vancouver Island, and Steve Lindley has detected, you  
12 know, the same individual passing by that particular  
13 array over an extended period of time. And so he  
14 knows, for example, that northwestern Vancouver  
15 Island is an important hang-out place for green  
16 sturgeon. But I just wanted to give a little bit  
17 more information about that tagging and how the  
18 information is limited.

19 MR. KLIMLEY: As part of the ERP Grant, we  
20 expanded the array in the Sacramento River and in the  
21 delta. Like to tell you there's 120 monitors going  
22 up the river in the delta and through the Army Corps  
23 of Engineers. There will be another 80 or so of  
24 them -- we're going to have close to 200 of them  
25 throughout the system to provide information.

1 MR. HAUSSNER: I'm familiar. I also operated  
2 Vallejo Marina where the boats used to tie up when  
3 you were doing the tagging. So I talked to your  
4 skippers and deck hands.

5 MS. JOHNCK: You know, you mentioned the  
6 salmon critical habitat areas designation. And we've  
7 been able to dredge and carry on our maritime  
8 operations within that -- not that it's been easy,  
9 but we've been doing that. And you noted the  
10 difference between the habitat designation for green  
11 sturgeon compared to the salmon regarding the Gate or  
12 the ocean area. And, also, there's some other, I  
13 know, differences between the fish. There's more of  
14 the bottom-dwelling activity of the sturgeon compared  
15 to salmon. But could you say what are some of the  
16 other differences? Because I'm looking at -- here  
17 again, what can we work out in terms of, here again,  
18 both protection as well as, you know, ensuring our  
19 maritime activities can keep going? I'm just looking  
20 again at what's the difference between the two  
21 habitat designations.

22 MR. WOODBURY: I think the main one for me,  
23 at least in the lower bays is the food resources  
24 component of the PCEs, the difference between the  
25 salmon and the sturgeon; sturgeon being a benthic

1 dweller. So when we're looking at dredging  
2 activities, they're going to have more of a direct  
3 impact on the sturgeon's food resources than you'd  
4 have for a salmonid food resource, which is a  
5 pelagic -- more of a mid-water species.

6 MR. STUART: The other major difference that  
7 you'll have is that as far as we know, the juveniles  
8 spend one to three years within the delta estuaries  
9 just in rearing, whereas salmonids, they're usually  
10 spending maybe a month to four months rearing in the  
11 delta. They have a much more extended period of time  
12 where they could be vulnerable to dredging, they  
13 could be vulnerable to a loss of foraging base in the  
14 different types of substrates. When I use the --  
15 look at white sturgeon, they're fed mostly on clams  
16 and shrimp, small amphipods, isopods. The few green  
17 sturgeon that we did get in that single port had  
18 similar diets; although that data now is 30-some-odd  
19 years old and it was before the pambula larvae in the  
20 mid-eighties. From what I've heard from UC Davis,  
21 who, as I've said, still have contact with the larger  
22 sturgeon, adolescent sturgeons, adult sturgeons are  
23 feeding predominantly on the Asian clams and  
24 aqueducts and what's on the bottom. We don't have a  
25 good handle on it. And that's one of the research

1 corrections that I've asked the different resource  
2 agencies to look into is what are the food resources  
3 for the juveniles, for the rearing fish that are here  
4 in our delta and out in Suisun and San Pablo Bay? We  
5 don't have a good handle on that.

6 The other thing you have to realize, too,  
7 unlike the salmonids, these fish can live 70, 80,  
8 maybe 100 years old. They're very long-lived, will  
9 come back multiple times into the estuaries to spawn.  
10 They make their way up river.

11 The other problem that you have to look at is  
12 the contaminant burdens that the older fish can  
13 incorporate into their body over several decades of  
14 coming through the delta and foraging in the delta.  
15 That's one of the issues -- I have a background in  
16 toxicology contaminants, so I'm always very leery of  
17 exposing new areas through dredging or through other  
18 actions that may have been in tune previously by  
19 sediments, and if you go open up a new area, you  
20 know, you may be uncovering contaminants that were  
21 laid down decades ago. That's one of the issues that  
22 I look at in the delta here.

23 But, you know, the predominant difference is  
24 you have a long-lived species that makes use of the  
25 delta and the bay for extended periods of time, which

1 salmon don't. Salmon go off shore and move through  
2 in comparison relatively quickly compared to the  
3 sturgeon. So when we look at the impact of the  
4 sturgeon, we have to remember that they are in these  
5 estuary environments for an extended period of time.  
6 And I think that's probably the biggest take-home  
7 message, that they have a resident species versus a  
8 transitory species.

9 MS. NEUMAN: Another --

10 MR. WINGFIELD: And I just had a follow-up  
11 question of what Ellen was talking about if this  
12 doesn't meet (unintelligible) --

13 THE REPORTER: You're going to have to speak  
14 up.

15 MR. WINGFIELD: You know, our window opens, I  
16 think, in August. Whatever practices need to be put  
17 in place, are we going to have enough time? I mean  
18 we only have, I think, three months to dredge. So  
19 our big concern is obviously for more next dredging  
20 season. Should we be, you know, prepared or  
21 panicking at this point?

22 MR. STUART: Well, we've already -- when I  
23 wrote the opinion for the Stockton Ship Channel, the  
24 green surgeon as a species was already addressed. So  
25 the critical habitat, I don't see really a big hurdle

1 to overcome because we're already addressing  
2 steelhead critical habitat along the San Joaquin ship  
3 channels. And within that opinion, I looked at the  
4 dredging contaminant issues, turbidity issues. So,  
5 especially, it will be a loss of a forage base. As  
6 we get more information -- and this part -- you know,  
7 as we work with the different applicants -- you know,  
8 right now, as I just said, we don't know exactly  
9 where and what the green sturgeon are eating. I have  
10 data that, you know, I looked at and data from the  
11 literature that's several decades old. When I  
12 analyze the impact of continued dredging on the green  
13 sturgeon critical habitat that's been proposed, the  
14 ship channel has already been a fairly well disturbed  
15 area for the last several decades, and you have a  
16 cycle of anywhere from 4 to 10 years depending on the  
17 different region. It's sort of already established  
18 kind of a repeating disturbance cycle. And when we  
19 re-enter into the re-initiation with the Corps, you  
20 know, those are the things that I'm going to be  
21 looking at. We've already established the cycle. I  
22 mean I wouldn't -- I wouldn't get, you know, bent  
23 over the axle on that. For that particular ongoing  
24 action, I don't see it as a huge hurdle if we  
25 continue on, you know, the operation that it's in.

1 MR. WOODBURY: Just to reiterate because  
2 there's a -- we use windows a lot, not in dredging  
3 but in pile driving. But if the fish is there year  
4 round, like delta smelt is there year round, and  
5 activities are still ongoing even though you've got a  
6 fish that's year round, so I -- I'm not going to --  
7 don't concern yourself so much with the windows with  
8 the species. I mean I'm looking at the data. Yes,  
9 there's times -- there's certain times of the year  
10 where adults come through, but I think from the  
11 Golden Gate to Rio Vista they move through -- I think  
12 their range was from 4 to 19 days, and the average  
13 was 6.5 days. They're moving through pretty quick.  
14 So I -- you know, I don't think -- yeah, for adults.  
15 Now, juveniles, they're there year round. So you're  
16 not going to have a window on juveniles, but they're  
17 there year round. So we're going to have to look at  
18 something other than windows to minimize potential  
19 affects. So if you've got a four-month window for  
20 salmonids, I think you can consider that's probably  
21 going to be your four-month window for sturgeon. And  
22 we'll have to look at what are your affects on  
23 sturgeon and what are we going to do about it. But I  
24 don't think that you're going to look at it will be a  
25 three-month window because it's sturgeon or a



1 one-month window or two-week window. It's a  
2 twelve-month window probably, and it's going to be  
3 open. We're going to have to look at other things  
4 other than a window to minimize on the potential  
5 affects.

6 MS. NEUMAN: One thing I wanted to add was  
7 that, you know, initially when we were looking at the  
8 overlap in our geographic area of occupation and prey  
9 resources, we generated some maps of some of the more  
10 common prey resources that we thought -- we didn't  
11 generate the maps. We actually went looking for maps  
12 of prey resources in the area that we knew green  
13 sturgeon were. We were hoping that this would be an  
14 opportunity for us to narrow the focus of our -- our  
15 critical habitat designation. But, in fact, didn't  
16 do that at all because the prey that we -- we have  
17 evidence that what green sturgeon eat are very  
18 broadly distributed, and they eat a broad -- you  
19 know, a broad group of organisms. They eat small  
20 schooling fish. They eat benthic invertebrates.  
21 Yes, there are about six that we can key in on, but  
22 those six benthic invertebrates pretty much occur  
23 throughout the geographic focus of this designation.  
24 So it didn't help us to narrow the focus. If we can  
25 get better maps of where the prey inside the bays and

1 delta are occurring or perhaps a bit of surrogate  
2 information, for example, if most of the prey that  
3 green sturgeon consume are in muddy habitat, maybe we  
4 can use habitat type as a surrogate for helping us  
5 understand what prey resources might be there. I  
6 think we lack some of that detailed information that  
7 will help us focus not only, you know, on the  
8 mitigation measures that we include in our opinions,  
9 but perhaps if we can get it in time, this  
10 designation. So...

11 MR. BERGE: I have a question actually  
12 outside of dredging, but I don't want to interrupt  
13 the flow here. But I'm just curious about the  
14 implications for EPA-generated NPDES permits either  
15 in place come the time of this critical designation  
16 or EPA permits that are pursued after that.  
17 Specifically I know vessels -- commercial vessels  
18 over 79 feet in length come December 20th will be  
19 operating about 20 different discharges under NPDES  
20 permits. And I'm just curious. I know you have  
21 pollution and NPDES listed as one of the activities.  
22 So I'm just kind of curious if that permit is in  
23 place, would we have to suddenly go through an  
24 additional consultation procedure, or what might  
25 happen in that regard?

1           MR. WOODBURY: The EPA has approached NOAA  
2 Fisheries at our national level Headquarters and  
3 requested a consultation for the new administration  
4 of the Clean Water Act for the NPDES permit. And so  
5 we are going through that now. I think invasive  
6 species was one of our central threats, I believe,  
7 initially -- invasive species and -- so a lot of  
8 those species come into this system through our  
9 mouth-water exchange or discharge in the ports. And  
10 so we now have a system in the delta and the bays  
11 where we have 99 percent of the population of the  
12 community is made up of these non-native invasive  
13 species. So it is definitely a concern to us, and  
14 we're looking at the national level to reach a  
15 conclusion on that. I know the State of California  
16 has very strict guidelines that deals with  
17 discharge -- vessel discharge. So we're going to  
18 have to look at -- at the benefit of those  
19 regulations on the species and see if that is  
20 adequate -- if it adequately addresses them.

21           Does that answer your question, John, or --

22           MR. BERGE: Yeah. It's worth noting if  
23 you're going to be going down that road that invasive  
24 species is obviously one of the mouth water, one of  
25 the 20 discharges listed through the 401 -- Section

1 401 State Certification process. The state can add  
2 additional requirements above and beyond the floor  
3 established under the EPA permit. And I understand  
4 from the State Water Board that -- that they will be  
5 adding the California Invasive Species provisions on  
6 top of that.

7 But I'm just curious if a vessel is operating  
8 under a Vessel General Permit by the EPA, would there  
9 have to be additional procedures taken by each permit  
10 holder at the period of this designation, or would  
11 that be incorporated within the general permit  
12 itself?

13 MR. STUART: That sounds like that will be --  
14 or addressed at our national -- I'm sure it's just  
15 not, you know, California --

16 MR. BERGE: Oh, yeah. No --

17 MR. STUART: It would be nationwide.

18 MR. BERGE: -- nationwide, exactly.

19 MR. STUART: And what I typically -- I -- I  
20 know like copper and pesticides up in the Northwest,  
21 our national-level managers have taken on that task  
22 and -- which makes more sense because we want a  
23 consistent policy throughout the whole country rather  
24 than just region by region.

25 I would have to assume -- and I hate to even

1     assume -- that a programmatic would probably stem  
2     down from that that we would then incorporate into a  
3     region-by-region basis for our use.

4             MR. WOODBURY: I'll give you a specific  
5     example here is that I'm currently updating the LPMS  
6     Biological Opinion, which an indirect affect of  
7     dredging is, you know, allowing these large vessels  
8     to come in, and the affect of that has been invasive  
9     species. Now, I've been told that the Biological  
10    Opinion will not have terms and conditions to  
11    minimize invasive species; that we're going to let  
12    the national level take care of that. For that  
13    specific issue, maybe that helps answer your question  
14    that we're looking for national guidance on that.  
15    That activity will be covered under the national  
16    guidance versus the local level.

17            MR. BERGE: Okay.

18            MR. KEITH: I have a question from kind of a  
19    different perspective. I'm wondering if you can  
20    elaborate a bit on the spatial extent of the proposed  
21    critical habitat, and in particular for rivers and  
22    delta waterways, whether it extends at all beyond the  
23    waterway itself laterally, for example, like in  
24    particular the banks, floodplains, riparian  
25    vegetation.

1 MS. NEUMAN: The extent of the designation in  
2 rivers is higher high water.

3 MR. KEITH: Can you repeat that? High or  
4 high water?

5 MS. NEUMAN: Higher high water. Higher high  
6 water.

7 MR. KEITH: Higher high water. Higher than  
8 what?

9 MS. NEUMAN: Higher than what? But --  
10 Jeff, do you want to --

11 MR. STUART: When you look at NOAA charts,  
12 and typically in a tidal-influence area, NOAA uses --  
13 you have a mean sea level, and then you have the  
14 highest high tide, and you have a mean -- or  
15 higher -- so basically it's like, you know,  
16 probably -- I want to say like the 95th percentile of  
17 your higher tide range. I mean you're always going  
18 to have spring tides and certain storm-surge tides  
19 that are going to go above that. When you look at  
20 the charts and use that for navigation purposes, it's  
21 the higher high tide of your spring tide. It's not  
22 the average --

23 MS. NEUMAN: So it does include --

24 MR. STUART: -- highest level, but --

25 MS. NEUMAN: -- some severance of the bank.

1 MR. WOODBURY: So -- yeah, it's different.  
2 What did we use for the rivers -- because I think  
3 your question was rivers.

4 MR. KEITH: Yeah, like in the --

5 MR. WOODBURY: Where you have tides, you have  
6 the higher high water that were used. And the ocean,  
7 I think along the coast we used something else, Coast  
8 Guard something or something along the --

9 (Multiple speakers.)

10 MR. WOODBURY: And then for the rivers -- is  
11 it ordinary?

12 MS. NEUMAN: Ordinary.

13 (Multiple speakers.)

14 MR. WOODBURY: So we used COLREGS for the  
15 ocean, higher high water for the estuaries, ordinary  
16 high water for the rivers.

17 MR. HAUSSNER: And, actually, it's -- the  
18 technical term would be mean higher high water  
19 because the mean of the 19-year average --

20 MR. STUART: Right.

21 MR. HAUSSNER: -- of the higher -- the  
22 19-year datum for that. And then COLREGS would  
23 provide the demarcation between inland waters and  
24 international waters.

25 MR. STUART: That's all in the footnotes of

1 the charts.

2 MR. KEITH: And then I'll follow up and ask  
3 if that -- if you have bank substrate, for example,  
4 or riparian vegetation that falls within -- in a  
5 river, for example, that falls within that ordinary  
6 high water mark, would that be considered a PCE that  
7 is also part of the critical habitat designation?

8 MR. STUART: We've kind of -- we've run into  
9 this kind of quagmire before with the steelhead  
10 designation, also the spring run. And previously we  
11 used riparian habitat, which is in the winter run  
12 critical habitat. My understanding is in a  
13 two-and-a-half repeating cycle, that's the normal  
14 floodplain. Typically in a levee you don't have a  
15 floodplain, unfortunately. But say the Yolo Bypass,  
16 which is one of the reasons why we did include that,  
17 that we do get sturgeon moving through there, it does  
18 flood up at a fairly frequent basis. And I can't  
19 remember all -- off the top of my head what the  
20 actual -- but it is like every two and a half, three  
21 years, you get an overtopping of the weir and it wets  
22 up for 20 to 30 days every winter season which is  
23 about a six-season. As you go farther up, like the  
24 Cosumnes River floodplain will flood up on a fairly  
25 frequent basis.



1           So when you look at the two-and-a-half-year  
2 repeating, the average bankful, that's what we're  
3 trying to get at. We've run into trouble before when  
4 we've included riparian habitat beyond that  
5 two-and-a-half-year elevation. So we're trying to  
6 maintain consistency with the steelhead and the  
7 spring run critical habitat that came out which kept  
8 it at that ordinary high level, two-and-a-half-year  
9 repeating level.

10           MR. KEEGAN: Again, with the salmonids, the  
11 essential fish habitat, they do a lot of permitting,  
12 of course, especially up in the rivers. You've  
13 got -- you've got to be concerned about upland  
14 activities as well and use the correct BMPs. That's  
15 where we run into -- essentially at the  
16 (unintelligible), we've always told NMFS  
17 (unintelligible) up in the river, or where there's  
18 steelhead or salmon listed, and we've got some in the  
19 jurisdiction, you know. Is that going to be the same  
20 case here with green sturgeon? And is it under the  
21 essential fish habitat? And then one more question:  
22 Are sturgeon going to be considered under essential  
23 fish habitat?

24           MR. WOODBURY: Yeah, essential fish habitat  
25 only covers fish that are federally managed. So this

1 is not a federally managed species, as far as I know.  
2 So there won't be -- yes, the FH. And the FH is  
3 under the Magnuson-Stevens Act not under the Invasive  
4 Species Act. So as Melissa mentioned earlier today,  
5 we're looking at just the ESA designation of the  
6 critical habitat. We're not the Magnuson-Stevens Act  
7 for essential fish habitat.

8 We did talk about how it affects the critical  
9 habitat, and I thought the resolution was that we  
10 were going to contain it to the ordinary high water  
11 because of life history of the species themselves. I  
12 know in the area that I work, you know, if you've got  
13 a project that's, you know, a bank stabilization  
14 project, even though that area might be officially  
15 designated, you know, we always have that discretion  
16 to discount that bank stabilization because the  
17 sturgeon are probably not on the bank; they're  
18 probably feeding in the mud a few feet off the bank.  
19 So it's -- just because it's designated, it doesn't  
20 mean you can't do anything there. I mean we're going  
21 to take a look at how that species is using that  
22 area. So if a wetlands is now wetted and is part of  
23 the designated critical habitat, and you go, "Well,  
24 we can't do anything," well, if they're not using  
25 that area -- if there's no PCE there, even though

1 it's designated -- I guess there would be if it's  
2 designated, but, you know, it's going to be --  
3 there's going to be some discretion of how we apply a  
4 designated critical habitat during our consultations.  
5 So for the bay, if you've got a bank stabilization  
6 project, it may not raise any red flags with us.

7 MS. NEUMAN: But that area is included in the  
8 designation. And so if you take a look at the PCEs  
9 here, you know, in years when the water goes up to  
10 its highest level, you know, and includes part of the  
11 bank, these PCEs are protected there. I shouldn't  
12 say that. Even in years when the water doesn't go  
13 there, those PCEs, if they are there, they are things  
14 that we are concerned about. And so if -- you know,  
15 even if that area of the bank is dry in most years, I  
16 mean I can't imagine that, you know -- well, I don't  
17 think sturgeon are jumping up out of the water to  
18 feed on things that are embedded within the bank of  
19 the river. But during years when it is submerged,  
20 maybe sturgeon are feeding on things that are  
21 embedded within that portion of the bank.

22 But anyway, the things that are going on  
23 adjacent to the river or ten miles from the river, if  
24 something happens ten miles from the river and the  
25 footprint of that project extends into the water, it

1 is something that should be considered in terms of  
2 it's affect on critical habitat.

3 MR. KEITH: Sure.

4 MS. NEUMAN: So it depends on what the  
5 footprint of the project is. That's why we always  
6 stress when we get an application from the action  
7 agency, we always stress that that footprint of the  
8 project be very well defined. Because if we don't  
9 understand what the spatial extent of the project is,  
10 it's impossible for us to do our job. So it's really  
11 important that -- that the action agency define  
12 how -- you know, what the extent of that project is.  
13 And very often, you know, it -- the action agency  
14 doesn't do that adequately.

15 MR. HAMPTON: I'd just like to add, too, to  
16 the gentleman's comment down here. I think you'll  
17 find that with the proposed critical habitat listing  
18 for green sturgeon it's going to be a lower bar than  
19 with like steelhead and salmonids like in the upper  
20 Sacramento River primarily because we're only talking  
21 about the mainstream Sacramento River. We're not  
22 talking about all the little tributaries where  
23 steelhead might go to spawn. And they're also --  
24 like Dave was saying, their life history, they're  
25 going to be much more tolerant to sediment and things

1 like that. So in terms of bank stabilization  
2 projects in the upper watersheds that contribute to  
3 the Sacramento River, I think it's going to be a  
4 lower bar. But all these consultations will be  
5 combined into one consultation. So all the  
6 considerations for all the different species that are  
7 potentially affected, I don't think you're going to  
8 see anything from the proposed critical habitat for  
9 sturgeon that's going to add to the burden that you  
10 already have to consider for steelhead and salmonids.

11 MR. WOODBURY: We also have designated  
12 critical habitat for the tributaries to these lower  
13 bays as well. So like the Headland River and Napa  
14 River up to the tidally influent portion, they are  
15 also there.

16 MS. JOHNNCK: Yeah. Another area of interest  
17 that I have is whether if a bar here -- not the sand  
18 bar -- the bar of harm and effect -- and this is in  
19 comparison, I'm interested in your comments, Melissa,  
20 about the effects that are identified to any of the  
21 PCEs -- let's say they're identified and they -- the  
22 review goes to known activities may have an affect  
23 on -- as contrasted, let's say, to the Endangered  
24 Species consultation where you have to look at, okay,  
25 take, which the "may" could come into a take as well,

1 but -- and I'm just interested in the nuances on --  
2 I've thought that the critical habitat was a higher  
3 bar or incremental to what we already have to address  
4 under the Endangered Species Listing, which is take,  
5 harm, kill. But it seems to me that you're saying  
6 that that level of review under Endangered Species  
7 take or harm is higher, and what we're coming to here  
8 is another step that concerns it but it's not  
9 necessarily a higher bar. Is that true, or a higher  
10 threshold?

11 MS. NEUMAN: I would say that it's a parallel  
12 bar. I mean what the biologist is looking at is --  
13 you know, when critical habitat is designated, under  
14 the ESA it's not only take of an individual fish, but  
15 it's also analyzing the effect of that project on the  
16 things that that individual needs in terms of its  
17 habitat requirements. Now, very often we do that in  
18 our -- in our regular consultations --

19 MS. JOHNCCK: Yeah.

20 MS. NEUMAN: -- because, again, take  
21 encompasses so many things, including altering the  
22 behavior of the individual.

23 MS. JOHNCCK: Right.

24 MS. NEUMAN: But it's another -- I would say  
25 a parallel look at how that project is specifically

1 affecting parameters of the habitat. I don't think  
2 it's a lower or a higher standard.

3 MR. WOODBURY: It's a different bar.

4 MS. NEUMAN: It's just a different bar. And  
5 so how do you get to a project will adversely modify  
6 critical habitat? I'm not sure. The same way you  
7 get to a project will jeopardize the continued  
8 existence of the species. I would think that it's  
9 the same process that the biologist is going through.

10 MS. JOHNSON: Here again, I'm looking at what  
11 would be the proof or the --

12 MS. NEUMAN: Oh.

13 MS. JOHNSON: Our demonstration that either --  
14 you know, we're not -- and I guess you focused on the  
15 food resources. Because I'm looking at some of the  
16 other PCEs here, and I -- of course, I'm going to go  
17 to dredging and say, well, I think under our LTMS --  
18 and we worked very hard, the industry in the bay, to  
19 ensure we're compliant and do -- be good stewards of  
20 water quality. Spent a lot of time on that. I think  
21 we could cover that, migratory corridors with --  
22 well, with windows, but -- well, okay, water depth --  
23 I don't know. But I guess the food resources is, I  
24 guess, what we haven't really addressed. And we have  
25 to come up with mitigations or something. We may

1 have. We may have. I'm just looking at food. Here  
2 again, I think of what would be, you know, very  
3 instrumental -- insurmountable, very difficult and  
4 saying, well, maybe there's some things that we've  
5 already demonstrated we're not adversely affecting  
6 except maybe the food. Any comments on -- or  
7 feedback on how I'm looking at -- or what we need to  
8 do more of in order to --

9 MR. WOODBURY: Yeah, I agree, Ellen. I think  
10 the number-one factor at least for dredging in the  
11 Bay Area is going to be on food, and how are we going  
12 to mitigate for that, you know, yearly, every other  
13 year, degradation of that -- of their food base. You  
14 know, we're working with Port Sonoma right now.  
15 We're looking at how long it takes to recover that  
16 food base. And so we've just finished that project,  
17 and we're looking toward another one. So maybe we  
18 can work with the coalition and the dredging  
19 community to find another spot in the bay where it's  
20 a little bit different from that and maybe in a  
21 federal channel or something where it's a deeper and  
22 faster -- faster flowing and different sediment and  
23 just see how fast the food recovers so we get an idea  
24 of the actual impact on the habitat. Because we  
25 really don't know that now. The citation we're using



1 now is *Oliver, et al.*, 1977. It was off of Moss  
2 Landing. So we really -- you know, there's -- also,  
3 this is outreach -- we need data. I mean we've said  
4 this many times, but we really need data to make good  
5 decisions. And, Ellen, you've been a real big  
6 proponent of that going back to Washington --

7 MS. JOHNSON: Right. Uh-huh. Absolutely.

8 MR. WOODBURY: -- and getting funds. And  
9 we've got Ethan here that is a --

10 MS. JOHNSON: Yeah. Which brings me to --

11 MR. WOODBURY: -- recipient of that.

12 MS. JOHNSON: It appears that as I read  
13 through the Federal Register narrative that even in  
14 the discussion of -- there's another nuance that I  
15 picked up. Tell me if I'm right. It was in the  
16 intersection between the high conservation identity  
17 and the economic exclusions printed in there --  
18 somewhere in there it appeared to me that there was  
19 recognition that there were areas in the total  
20 geographic scope where due to efforts of industry  
21 agencies, there was a lot going on in stewardship,  
22 conservation, activities that we're already managing  
23 the species and -- or managing habitat, we'll say  
24 that, due to efforts -- and those efforts were  
25 recognized somehow in the ultimate identification of

1 high conservation zones and economic -- I mean in the  
2 areas that were excluded, there was some recognition  
3 that there were ongoing activities that were taking  
4 care of the habitat. That's what I picked up. And I  
5 mean I thought that was important, and that is, of  
6 course, the point that I want to make, that we're  
7 doing a lot already and how that can be recognized in  
8 the biological point of view. Was that a  
9 consideration or was I reading between the lines and  
10 not --

11 MS. NEUMAN: You know, we took a lot of  
12 things into account. And one of the things that we  
13 did look at was what's going on to improve, for  
14 example, this particular habitat in the future or  
15 currently. And, actually, in some cases, it moved  
16 the group to keep a particular area in the  
17 designation or even give it a higher value, because  
18 if the potential -- because, for example, there's a  
19 plan in place to remove the Vaqueros Dam, if the  
20 potential is there, sometimes, in the case of the  
21 Yuba River, it's a great example, between the Yuba  
22 and the Feather River, the Yuba River actually got a  
23 higher conservation value because of this possibility  
24 of that habitat improving in the future, water flows  
25 being restored and things like that. And the Feather

1 River got a little bit of a lower score. It didn't  
2 hinge on this exactly, but it was one of the things  
3 that was discussed and may have been -- or may have  
4 resulted in this lower score, but the Feather River,  
5 even though we know that green sturgeon -- southern  
6 DPS green sturgeon still enter the Feather River and,  
7 in fact, move right up to the place where they can't  
8 go any farther and sort of exhibit some strange  
9 behavior that suggest to some that, boy, it looks  
10 like they want to spawn, but they can't, or, you  
11 know, maybe they do and we just haven't figured that  
12 out yet. So -- but it might have worked the other  
13 way as well. If, for example, in an area we knew  
14 that there was -- although I don't think so. I don't  
15 think it ever led to us excluding an area --

16 MR. WOODBURY: No, I don't think so.

17 MS. NEUMAN: -- because we knew something  
18 good was going on in that particular area.

19 MS. JOHNCK: How about Puget Sound, actually  
20 which is another --

21 MS. NEUMAN: Puget Sound was excluded because  
22 it's -- there's nothing good going on there. It's so  
23 degraded and the use of green sturgeon of that  
24 habitat is pretty limited in terms of the detection  
25 data we have that I think -- and there were lots of

1 Department of Defense lands there as well.

2 MS. LAMB: Right.

3 MS. NEUMAN: So there were definitely some  
4 things going on. But one of the things that I  
5 remember Steve Stone bringing up about Puget Sound is  
6 it's pretty degraded with no plan for it improving in  
7 the future.

8 MR. WOODBURY: I think both Tomales Bay and  
9 Elkhorn Slough, we did consider the fact that there  
10 wasn't a lot of activities going on there, and it  
11 was -- you know --

12 MS. NEUMAN: Okay.

13 MR. WOODBURY: -- it was a -- it was being  
14 conserved. So -- so I think we -- I think that led  
15 into our downgrading of that because there was --  
16 green sturgeon do occupy those two areas.

17 MS. NEUMAN: We had confirmed southern DPS  
18 presence, though, there?

19 MR. WOODBURY: Well, we have green sturgeon  
20 presence, but not confirmed southern DPS. So I think  
21 it was, Ellen -- I think we did look at some areas  
22 that did look like they were --

23 MR. STUART: Elkhorn Slough in particular,  
24 there were two accounts of green sturgeon: One on  
25 the water intake cooling racks for the Moss Landing

1 Power Plant, and another was a green sturgeon carcass  
2 that was found right at the mouth of Moss Landing,  
3 Elkhorn Slough. And Elkhorn Slough is an affected  
4 area now. So nothing's going to happen there, knock  
5 on wood. So, you know, more bang for the buck if we  
6 put our efforts elsewhere.

7 MS. NEUMAN: National parks -- not in this  
8 particular designation, but national parks have  
9 actually been excluded from critical habitat  
10 designations for similar reasoning: It's already  
11 being managed in order to protect the species that --  
12 you know, whoever was concerned about -- I guess  
13 mostly Fish & Wildlife Service. And so Fish &  
14 Wildlife Service does have a record of excluding  
15 national parks from their designations because they  
16 feel that it's already being managed well and that  
17 the habitat is being conserved and protected  
18 adequately.

19 MR. KEEGAN: Does that apply to the local  
20 marine sanctuaries as well? Those places aren't -- I  
21 mean they're currently on your designation list.  
22 Should they be?

23 MR. WOODBURY: So that would be like the  
24 National Marine Sanctuaries?

25 MR. KEEGAN: Right. Like the Golden --

1 MR. WOODBURY: Like Cordell and Monterey  
2 Bay --

3 MS. NEUMAN: Right, Monterey Sanctuary,  
4 Channel Islands --

5 (Multiple speakers.)

6 MS. NEUMAN: We did not exclude any national  
7 parks from our designation.

8 MR. KEEGAN: But is that under consideration?

9 MS. NEUMAN: For sanctuaries? I don't know  
10 that we totally considered it. You know, in a  
11 sanctuary, what's mostly limited is fishing. And  
12 this species is not fished. So it may have come off  
13 the table -- I think we did think about this a little  
14 bit, and I'm not sure that the Park Service or the  
15 sanctuary actually offers protection to green  
16 sturgeon because their regulations, again, limit --  
17 might limit fishing in and around the park or the  
18 sanctuary. But in terms of discharge, LNG terminals,  
19 these kinds of things, NMFS holds the regulatory  
20 power for those kinds of actions. I shouldn't say we  
21 hold it; we share in the responsibility of regulating  
22 in those realms. But the sanctuary does not --  
23 sanctuaries actually have very little regulatory  
24 power.

25 MR. BERGE: Just further on that thought, I

1 know the California National Marine Sanctuaries are  
2 adopting regulations to mimic the -- or align with  
3 the California Clean Coastal Act which does limit  
4 discharge.

5 MS. NEUMAN: Discharge.

6 MR. BERGE: So in that regard I think they  
7 are trying to manage the discharge. I can't speak in  
8 terms of sediment (unintelligible), but certainly  
9 (unintelligible).

10 MR. WOODBURY: Uh-huh.

11 MR. KLIMLEY: Not just in terms of the PCEs,  
12 I noticed (unintelligible) they interpreted it in  
13 terms of feeding sources. But an animal has to get  
14 from point A to point B. And we did some tracking of  
15 green sturgeon in the bay, and we found that the  
16 green sturgeon that was raised on tiburon (phoneti)  
17 that it moved out of the bay very rapidly -- the  
18 current was going out, but it was moving with the  
19 current. And how does it do that? It doesn't see  
20 the bottom; it doesn't see the surface. And so --  
21 and we created this flow chamber where we're trying to  
22 find out how they actually determine flow. But I  
23 think that flow is very important in terms of their  
24 moving around the bay. And so they may be foraging  
25 in front of Vallejo, but then they get in that

1 channel -- or how do they get out of Suisun Bay,  
2 which is just -- you can't see. Well, once the water  
3 starts flowing, they can follow that. So it seems to  
4 me that where you put channels -- channels may not be  
5 bad. They might be good, dredged channels where you  
6 have flow, and essentially you're making a road for  
7 the animal to follow. Unfortunately, you know, some  
8 of this work is yet to be published by myself.

9 MS. NEUMAN: We did highlight, I believe, in  
10 the rule that --

11 MR. KLIMLEY: It's No. 3. So it's up there,  
12 you know.

13 MS. NEUMAN: Right. I think that some folks  
14 during the various stages of review of this notice  
15 were asking about depth, and we highlighted water  
16 depth as --

17 MR. KLIMLEY: They're all related, depth and  
18 flow.

19 MS. NEUMAN: Right. But somebody was pushing  
20 us to say, well, which depths? Is it 0 to 5 meters?  
21 Is it 0 to 10 meters? Is it 10 to 15 meters? And  
22 when we started getting into the literature a little  
23 bit more, from what we could gather, what we  
24 determined was it's really a variety of depths.  
25 Based on some of the information that's been shared



1 today with them up and down in the water column, we  
2 weren't able to say that it is these depths. We know  
3 that deep holes in some areas are -- in some areas of  
4 the system may be important for green sturgeon in  
5 terms of holding and perhaps feeding. But we  
6 couldn't say that this particular set of depths is  
7 important for green sturgeon. Again, this would have  
8 helped us narrow our designation a bit. And what we  
9 learned was it was this variety of depths depending  
10 on the life stage --

11 MR. KLIMLEY: When I think of depth, you  
12 know, it's important. But you're in the middle of  
13 Suisun Bay, you can't see your hand, and you take a  
14 person and put them there. Yet the -- and just go  
15 around and around. But a sturgeon will go out and  
16 then up the channel and up the river. How does it do  
17 that? And it may be something that simple. One  
18 simple rule, that you can detect flow. Well, you  
19 need to know whether it's going out or going in. But  
20 it's really important. So any work that we do in  
21 tracking and developing a random model we probably  
22 would modulate by depth, channels.

23 MR. HAMPTON: Water flow, I would think that  
24 depth -- and I'm thinking about the rivers again --  
25 up river, not just, you know, feeding and movement,

1 migratory behavior, but I mean obviously spawning  
2 behavior is something that's very important in the  
3 life cycle of the species, and depth to the extent  
4 that it affects water temperature. I mean those  
5 things are very closely related. So, you know,  
6 that's -- that's got to be in it. It's not so much  
7 about how deep the water is, but the depth to the  
8 extent it affects what the temperature and --

9 MS. NEUMAN: Uh-huh.

10 MR. HAMPTON: -- and -- and it's obviously  
11 lethal above a certain point.

12 MS. NEUMAN: And so a lot of these PCEs are  
13 interrelated. Water quality, water flow, water  
14 depth, sediment quality, I mean --

15 MR. KLIMLEY: You've got them all up there.

16 MS. NEUMAN: We recognize that they're all  
17 related. And unfortunately it's not one level of  
18 each that says to us green sturgeon will be here at  
19 this time. In some of our critical habitat  
20 designations for large whales, they are completely  
21 defined by where krill aggregate. And they have  
22 really -- you know, for some whale species, there's  
23 some really good data that show exactly where in the  
24 ocean and at what time krill will aggregate in large  
25 numbers. And so I'm not saying that they had an

1 easier job with large whales, but I think they did  
2 with some of their critical habitat designations  
3 in -- in defining their critical habitat because they  
4 had one PCE, and it was one prey resource, and they  
5 had good maps showing exactly where that prey  
6 resource aggregated. It's much more complex -- fish  
7 are more complex.

8 Okay. It is getting to be close to 12:30. I  
9 said we were going to take a break for lunch. How  
10 does everybody feel about breaking for about a half  
11 an hour for lunch, or do you want to go for --

12 MR. WOODBURY: We're not going to get there  
13 in half an hour.

14 MS. NEUMAN: Okay. An hour? I'm not sure  
15 what your schedules will allow. We can take as long  
16 as you'd like for lunch, actually. If you'd prefer  
17 to have 45 minutes to an hour, that's fine. Does  
18 anybody --

19 MR. BERGE: Just a question. What's the rest  
20 of the agenda? Is it a continual discussion like  
21 this, or is there a specific presentation -- a  
22 different presentation?

23 MS. NEUMAN: Do we have more questions from  
24 the audience, more general back-and-forth questions?

25 MS. JOHNCK: Well, I have a couple -- I

1 mean -- you know, my comments are more -- I wanted to  
2 provide you more information on the economic  
3 situation, how it's tied into national security, our  
4 conditions more having to meet Department of Homeland  
5 Security, how it relates to -- that kind of thing.

6 MS. NEUMAN: Okay.

7 MS. JOHNCK: So that's -- I just -- here  
8 again, this is providing you more information.  
9 Another topic would be what can we do between now and  
10 June? I mean -- that's what -- we will utilize the  
11 extent of the comment period, no question, and  
12 develop recommendations. But the other topic would  
13 be what can we do in terms of programmatic between  
14 now and June, these kinds of things. Those are my  
15 primary areas. Maybe we can take 15 or 20 minutes on  
16 that. I don't know.

17 MS. NEUMAN: Does anybody else have other  
18 back and forth that they would like to engage in, or  
19 would anybody like to give a formal public comment to  
20 Sandy?

21 MS. JOHNCK: You mean -- this is the record.  
22 I mean --

23 MS. NEUMAN: This is part of the record. But  
24 if there's something that --

25 MS. JOHNCK: I've sent a letter already. I

1 will be delivering official public comment in the  
2 form of an compendium.

3 MS. NEUMAN: Right. But if there's anything  
4 that you'd like to speak to Sandy directly on, now is  
5 your time. It's a chance for you to perhaps be, I  
6 don't know -- because we won't be listening. So you  
7 can tell her whatever you want to about us and it  
8 becomes a part of the public record.

9 MS. JOHNCK: I don't have anything  
10 officially.

11 MS. NEUMAN: This is your opportunity to tell  
12 Sandy whatever you'd like to that perhaps you don't  
13 want all ears to hear, and it becomes a part of the  
14 record.

15 MR. KEEGAN: Can we talk about the  
16 presidential election?

17 MS. NEUMAN: Okay. Well --

18 (Multiple speakers.)

19 MS. JOHNCK: So am I the only reason people  
20 would be staying over? Does anyone have anything  
21 more? Because -- I mean if you want to handle my  
22 things now and go for another 20 minutes --

23 MR. WOODBURY: That's what I'm thinking, too.  
24 Let's just do it.

25 MS. JOHNCK: Okay.

1 MS. NEUMAN: We could do that, and then we  
2 could break. And if we would like to continue -- you  
3 know, if people are hungry, we can go have some lunch  
4 or something like that, or we can just say farewell  
5 until next time.

6 Okay. So, Ellen, go ahead.

7 MS. JOHNSON: Okay. It's pertaining to the  
8 navigation and commercial interests in the bay.  
9 Where I see the economic information limited and --  
10 by the way, I am taking into consideration your --  
11 you have a standard that I wasn't quite -- I want to  
12 say fully understanding between the -- I guess you're  
13 looking at the incremental economic costs after  
14 you've already gone -- what you've already spent on  
15 complying with the Endangered Species Act. I  
16 understand you have that standard there. But beyond  
17 that, notwithstanding that, I felt that the  
18 economic -- the economic evaluation was still  
19 limited.

20 And on the question of exclusion of DOD  
21 lands, what -- and the reasons thereof, it would be  
22 important for the designation to consider the  
23 relationship of the security restrictions which are  
24 being applied to industry in the bay that say you  
25 must dredge your channel, you must keep the flow and

1 the channel open in a safe and reliable depth for all  
2 manner of vessels. In fact, we've even had to come  
3 under even more rigorous scrutiny, more mandates from  
4 the Department of Homeland Security for this both in  
5 our major ship channels as well as in our berthing --  
6 in our harbor area. So we've got to dredge the  
7 channels to comply with some security, military  
8 considerations. So I think there's a -- depending on  
9 how this ends up and what our costs would be on that,  
10 that -- those are the type of considerations that we  
11 should be, you know --

12 MS. NEUMAN: Right.

13 MS. JOHNCCK: -- including. And then the  
14 whole -- the -- how we organize regarding how  
15 dredging is done. Right now we have -- are still  
16 dealing with a federal budgetary system that is a  
17 very complex procedure, and we've done the best we  
18 can to get the money and the time -- and the  
19 expenditure of the money timed from the federal  
20 government -- and also from the state -- to get our  
21 dredging done and to complete the dredging that we're  
22 doing for restoration, which are providing additional  
23 conservation areas for habitat. We're getting a time  
24 with the windows slowly, and it's still a very  
25 difficult process. So if we were having to move

1 around the whole thing -- we can't change the federal  
2 budget. You're not going to have a budget now. It's  
3 even worse than ever this year and next year. So I'm  
4 just sort of painting a picture for you depending on  
5 how this sort of comes around a full 360 degrees back  
6 to where we were five years ago.

7           And what we well do in developing our  
8 economic considerations, economic impact  
9 considerations, develop more of an understanding of  
10 that so that could be dealt with in the critical  
11 habitat designation, which will be significant, let  
12 me just say that. And it's just -- not just a matter  
13 of a little bit more that we have to spend to deal  
14 with critical habitat; it could actually set what  
15 we've got going on its heels. So we're very worried  
16 about that.

17           MS. NEUMAN: I think what would be very  
18 important and informative to have a discussion with  
19 you and our economists at Industrial Economics so  
20 that they can --

21           (Multiple speakers.)

22           MS. JOHNCK: And the Corps, too.

23           MS. NEUMAN: -- and the Corps --

24           (Multiple speakers.)

25           MS. NEUMAN: -- so they can explain exactly



1 what they did --

2 (Multiple speakers.)

3 THE REPORTER: Okay. Wait a minute.

4 MS. NEUMAN: -- and how they arrived at their  
5 estimate annualized --

6 MS. JOHNCK: Right.

7 MS. NEUMAN: -- incremental costs. And I  
8 think that's going to be very important to this  
9 process. Because, unfortunately, I don't think we  
10 can speak to that eloquently, but I know that they  
11 can. And so that's where we can determine is there  
12 something that they missed. Is there something big  
13 that they missed. I know that the Department of  
14 Energy and FERC want to engage us and Industrial  
15 Economics in the same kinds of discussions because  
16 they feel that we -- that we way underestimated the  
17 costs of some of these alternative energy LNG and  
18 hydroelectric power projects and what kinds of  
19 changes we would make to those projects to protect  
20 critical habitat. So I think that might be the --

21 MS. JOHNCK: Yeah. And I --

22 MS. NEUMAN: -- best next step.

23 MS. JOHNCK: -- mean with the fact -- I mean  
24 very big fact that I represent refineries -- the five  
25 major refineries on the West Coast for Northern

1 California, that is, the bay -- they produce all the  
2 fuel for all the airports for -- you know. So if --  
3 if we had to turn this entirely around and that  
4 was -- and the only way they could get the fuel to  
5 the airports is through -- some of them are by plane,  
6 but by tankers coming into the bay and delivering the  
7 fuel to the refinery -- well, Chevron is a large one,  
8 but they -- I mean, of course, as I said, for -- all  
9 the airports supply the energy for all the western  
10 states. So they have to dredge. And that's as  
11 simple as that. So depending on how -- and right now  
12 we're -- I mean we're -- we have a system of managing  
13 for the protection of the species through our  
14 windows. It's tough. And there are times when we  
15 can't do it, moving 5 -- you know, 4 million cubic  
16 yards about in a year. It's tough, but we're doing  
17 it. And we're very dedicated to, you know, taking  
18 care of the species and keeping, you know, commerce  
19 going. And we will continue to do that.

20 I guess I would say, too, that even though we  
21 will be adding what the significant costs will be  
22 some -- this whole present system of management that  
23 we've got going now, whether that would be totally  
24 turned on its heels or what that would be. But I do  
25 want to dive in hopeful that through a programmatic

1 permit we will be able to keep this system in  
2 balance. But at the moment, there is uncertainty on  
3 that because of what we've got before us. So -- but  
4 we've had a very good success with the Fish &  
5 Wildlife Service and Fish & Game. I think our whole  
6 program here for managing the bay in a lot of  
7 areas -- we still have a lot of work to do, and we  
8 need to be looking at other types of innovations for  
9 the food resources. We're perfectly willing to look  
10 at that.

11 And I guess my final comment, too, is what  
12 can we do between now -- notwithstanding how this  
13 final designation looks like, it appears that in some  
14 way, shape, or form we will have to have a  
15 programmatic permit. So I guess what would we need  
16 to do to support you, David, to get that done with  
17 all your activities? You don't have to answer that,  
18 you know, right away. But it appears that for the  
19 delta, though, the Biological Opinion -- we already  
20 have -- it appears that you think you can just -- I  
21 don't mean to minimize the current sturgeon issue,  
22 but to tack on the critical habitat onto the  
23 Biological Opinion for the Sacramento River, that it  
24 would be somewhat simple. I mean if I could --

25 MR. STUART: No, I think that's an accurate

1 representation. The Opinions for the -- I think it's  
2 for the Sacramento Ship Channel and the Stockton Ship  
3 Channel are relatively recent Opinions, 2006, I  
4 think, and 2007 when we re-initiated because the port  
5 was concerned, as was the Army Corps of Engineers.  
6 So we -- we had to put on our thinking cap and start  
7 thinking down the road to this eventuality. I mean  
8 we knew -- we knew critical habitat was coming and by  
9 law we had to have it. So we also -- when we looked  
10 at spring run and Central Valley steelhead critical  
11 habitat, we anticipated that the affects that we were  
12 analyzing for spring run and steelhead within the  
13 delta would have a similar carry-over affect for  
14 green sturgeon. And, essentially, it's moving out  
15 the sand. And when we look at the contaminant issues  
16 basically -- particularly in the lower reaches of the  
17 ship channels, it was sand. So contaminant issues  
18 kind of went by the wayside. The dredging cycles, it  
19 looked like we had enough time in between dredging  
20 cycles that we could get recolonization of bethnic  
21 invertebrates. So, you know, I put on my thinking  
22 hat and thought about it as I wrote those Opinions.  
23 When we come out with the final critical habitat  
24 designation, the Corps will have to, you know, say we  
25 want to re-initiate for critical habitat. And then

1 since I've already done most of the groundwork  
2 already, I don't anticipate that it's going to take  
3 me very much longer to turn that around and come out  
4 with an updated opinion.

5           So I've been fortunate. I've already thought  
6 about that. I've already grown more gray hairs two  
7 years ago writing those opinions. Knock on wood, you  
8 know, the Corps -- if the Corps addresses it quickly,  
9 gives me documents that are useful, up front, you  
10 know, maybe there will be updated dredging cycles.  
11 And, you know, I know there's news out there that  
12 they might want to go a little bit deeper --

13           MR. SUDA: There's two projects in  
14 San Francisco deepening both of those channels, and  
15 that would be -- we'd have to talk about that, I  
16 guess.

17           MR. STUART: That's a bigger trigger.

18           MR. SUDA: That's a bigger a trigger, and I  
19 understand that. But, you know, we'd have to  
20 re-visit that again, you know, but...

21           MR. STUART: Yeah. I see that behind the  
22 curtain.

23           (Multiple speakers.)

24           MR. KLIMLEY: Our goal is getting deeper  
25 channels?

1           MR. SUDA: Well, there are two projects that  
2 are --

3           MR. KLIMLEY: That's good for sturgeon.

4           MR. SUDA: -- coming out of San Francisco  
5 that -- we have two Project Delivery Teams that are  
6 working on deepening both of those channels. And  
7 people in my section and Barry's section are working  
8 on those so that we -- and I know that the big  
9 problem is the salinity and toxicology and O2 levels.  
10 So we all understand that that's a big hurdle to get  
11 over. If we could solve that, I think maybe writing  
12 the part about critical habitat might not be the  
13 highest priority.

14          MR. WOODBURY: No.

15                   (Multiple speakers.)

16          MR. STUART: That's a little speed bump --

17          MR. SUDA: At least we're all smiling. Okay.

18          MR. KLIMLEY: I'll just say we had a seminar  
19 about a month ago by Duane Foxmore working in the  
20 Chesapeake, and there they have mortality in sturgeon  
21 because the channels are too shallow. So a deep  
22 channel in some respects is good.

23          MR. SUDA: Well, the problem here is, I  
24 guess, we're going to take some of that overburden  
25 and put some other contaminants out and salinity and

1 then we have oxygen problems. So -- but those are  
2 minor issues. And I say that very facetiously with a  
3 big smile on my face.

4 MR. STUART: The facetious laugh from the  
5 biologist.

6 MR. SUDA: A little bit of humor gets you a  
7 long way.

8 MR. STUART: Job security.

9 MR. SUDA: Yeah.

10 MS. JOHNCCK: Okay. I think -- yeah.

11 MS. NEUMAN: Okay.

12 MS. JOHNCCK: I'm done.

13 MS. NEUMAN: Well, remember our Federal  
14 Register Notice requests additional information on a  
15 variety of different topics. I think I outlined a  
16 couple of those to you today. But for those of you  
17 who are dredging or, you know, engaging in shipping  
18 activities, I think one of the things that might be  
19 helpful for you to think about, and perhaps, Ellen,  
20 you to bring back to the coalition is how can we move  
21 forward with what it is we want to do and help NMFS  
22 address some of these important data gaps that exist.  
23 Because in the future --

24 MS. JOHNCCK: Yes.

25 MS. NEUMAN: -- at approximately four years

1 from now, we'll be updating our Status Review of the  
2 species and, in conjunction with that, comes updating  
3 our listing determination, our 4D Rule, our critical  
4 habitat designation. We've got Recovery Planning  
5 down the road. So our request to you for information  
6 is also a request for help in allowing us to learn --

7 MS. JOHNSON: Yeah, I am here in that spirit.

8 MS. NEUMAN: -- more. And you work with a  
9 lot of folks who can potentially help either by  
10 subcontracting out to, you know, scientists,  
11 researchers, who -- you know, whoever it is to gather  
12 that information at relatively little costs to them.  
13 If you're already taking the dredge spoils somewhere,  
14 maybe you take a look at the dredge spoil and figure  
15 out what's in it. I mean you probably do already.  
16 You're probably required to do that.

17 MS. JOHNSON: Oh, yeah.

18 MS. NEUMAN: But, you know --

19 (Multiple speakers.)

20 MS. JOHNSON: Golden California soil.

21 (Multiple speakers.)

22 MS. NEUMAN: Okay. So I'll just leave you  
23 with that is that we're -- you know, we're always  
24 updating these documents and hoping to improve what  
25 we've worked with. And a lot of times what we put



1 out is because we have to meet a deadline in order to  
2 do it. We always recognize the fact that it can  
3 improve over time as we learn more.

4 MS. JOHNCK: The Recovery Plan is important.  
5 I mean I'm thinking about that because we work with  
6 Fish & Wildlife Service in action (unintelligible)  
7 Recovery Plans. Thank you very much.

8 MR. WOODBURY: I'd like to get a sense of how  
9 many people would like to return after our one-hour  
10 lunch break. Anybody coming back?

11 (Discussion held off the written record.)

12 (Lunch recess.)

13 MR. IVESTER: Well, I'm mostly -- I'm just  
14 more interested in the process in timing. And I know  
15 there's a court settlement with a deadline.

16 MR. STUART: June 30th we're supposed to have  
17 our final.

18 MR. IVESTER: Right. Which obviously sets  
19 some constraints. But I just wondered what you saw  
20 as the process.

21 MR. STUART: Well, the process -- well, Ellen  
22 asked if we could have a -- or she could have an  
23 extension. She wanted six months, which I don't  
24 think is realistic for pushing our June 30th deadline  
25 probably outside of the Court's tolerance level. But

1 it's -- there is a potential to have a 45-, maybe  
2 60-day extension. You know, that's not for  
3 everybody, but we can work with Ellen and her  
4 consortium --

5 MR. IVESTER: Coalition.

6 MR. STUART: -- coalition. You know, and --  
7 because Ellen and the coalition have already worked  
8 with David Woodbury. So there's already a pretty  
9 good working relationship that we can, you know,  
10 settle everything up by the end of the year and get  
11 moving towards the final critical habitat. That's --  
12 that's the process we're looking at. So it's  
13 still -- you know, it's kind of a tight time line.

14 MR. IVESTER: It sure is. And you would know  
15 better what the judge's tolerance is pushing that  
16 deadline back.

17 MR. STUART: You know, that would be more  
18 Melissa's -- I'm -- she's more attuned to what the  
19 actual scheduling deadline is for the different Court  
20 decisions as to when we need our critical habitat  
21 issued. My impression of what Melissa has said is  
22 that June is pretty hard. We're already over where  
23 we should have been with the critical habitat  
24 designation, which was listed in 2006. Normally it's  
25 about a year, and we're two years out now, almost

1 going on three. So I'm not sure there's a whole lot  
2 of slippage left in the system of getting it pushed  
3 out farther.

4 MR. IVESTER: Okay. Well, I don't know if  
5 she explained what we had in mind at the coalition,  
6 but, you know, taking a look particularly at areas  
7 around the bay and the delta, and looking at both the  
8 biology and the economics of specific areas and  
9 trying to do some sort of a balancing.

10 MR. STUART: Right.

11 MR. IVESTER: And, you know, it just takes a  
12 certain amount of time to collect the data and  
13 analyze it and present it. And we'll just have to do  
14 it as quickly as we can. But that really puts a time  
15 crunch on it.

16 MR. STUART: I believe Melissa had offered up  
17 to Ellen meeting with the economic analyst, who -- I  
18 believe there's one representative in San Francisco,  
19 a woman we have been working with back in  
20 Massachusetts is probably, as we speak, going on  
21 maternity leave. So that may not be a fruitful  
22 avenue to follow.

23 So, you know, some of Ellen's discussion  
24 centered around Homeland Security issues and how the  
25 economic analysis was completed, particularly the

1 trigger monetary levels. So Melissa had offered up  
2 meeting with the analyst that we used to try to  
3 answer those questions. And as far as the biological  
4 issues, we're going to make available all of our  
5 references that we used, as many as we can get  
6 online. Between David Woodbury and myself, we have  
7 several hundred reference articles, both scientific  
8 literature and the gray literature, and those  
9 hard-to-find tidbits of wisdom from UC Davis and  
10 such. So we'll do our best to get those all PDF'd  
11 and put on the web. Most of them, I think, are there  
12 already. But some of the other more obscure ones  
13 that we'll have to work to clean up and put on  
14 there -- some of them I just haven't -- I'll have to  
15 go scan those.

16 MR. IVESTER: Do some scanning.

17 MR. STUART: Yeah. Hopefully while not  
18 violating copyright laws.

19 MR. IVESTER: I don't know anything about  
20 copyright laws.

21 MR. STUART: Yeah, that's one of the things I  
22 don't know.

23 MR. IVESTER: Okay. Well --

24 MR. STUART: It sounded -- between -- the  
25 conversation that we had with Ellen before lunch and

1 Melissa and the biologist and kind of around the  
2 table, it sounded like there was a lot of agreement  
3 between all the different stakeholders as to where we  
4 needed to go and kind of better defining what the  
5 critical habitat is. For myself, I do Sacramento and  
6 Stockton Ship Channels. And the Biological Opinions  
7 that I have already written came in right about the  
8 time the green sturgeon was listed. So we knew it  
9 was proposed. We didn't know exactly when it would  
10 be listed. The Port of Stockton actually came back  
11 and asked us to re-initiate. So I incorporated green  
12 sturgeon into that Opinion and made assumptions on  
13 the critical habitat back in 2007, you know, based on  
14 what we had already done for steelhead and spring  
15 run. So it shouldn't be much of a hurdle. And I  
16 think Dave is -- Dave Woodbury is of the same  
17 opinion, that they're working to get a program added  
18 for the Bay area, and that work is already being  
19 negotiated and talked about between all the parties.  
20 So knock on wood, it shouldn't be that big of a  
21 hurdle to overcome.

22 I guess the major concern was that come  
23 June 30th or July 1st, all of a sudden everything  
24 stops because the critical habitat -- we'd all have  
25 to re-initiate our consultations. We're hoping to

1 avoid that sort of scenario. We already have the  
2 gears going and programmaticals being developed so that  
3 we don't have much of a speed bump in the road.

4 MR. IVESTER: That one sounds good, yeah.

5 To shift gears just a little bit -- this is  
6 more just a point of curiosity at this point, I  
7 notice that on the biological side there's some  
8 extrapolation basically from salmonid data.

9 MR. STUART: Yeah.

10 MR. IVESTER: And then the critical habitat,  
11 at least in the Bay area for salmon doesn't include  
12 the South Bay and other portions, but yet the  
13 proposal for the sturgeon does. And I just wondered  
14 what thought went into that.

15 MR. STUART: Well, sturgeon actually occur  
16 throughout the whole Bay area. They catch white  
17 sturgeon south of the Dumbarton Bridge all the time.  
18 And biologically speaking, there's no barrier in the  
19 movement of sturgeon within the bay. And sturgeon,  
20 both species, are known to use the Bay area for  
21 rearing, typically in the first three years. So  
22 adults do come in and congregate -- you know, part of  
23 the mystery of sturgeon, we're not exactly sure what  
24 some of these congregations really are; although, we  
25 do see congregations of fish. We have one in the

1 winter up off British Columbia for green sturgeon.  
2 Our recent acoustic telemetry data has shown us -- we  
3 have listening posts up off of Vancouver that listen  
4 to acoustic tags, and we've had several dozen fish  
5 show up there a couple years in a row. So we're not  
6 sure what they're doing. We know they're there.  
7 It's part of the mystery of sturgeon.

8 MR. IVESTER: That's interesting. Okay.

9 MR. STUART: So -- and Dr. Klimley was here  
10 from UC Davis, along with Josh Isreel, and some of  
11 his technicians. And they're, you know, working hard  
12 and fast to get us more data on movement and timing  
13 of green sturgeon within the delta and Sacramento  
14 River. And then particularly we're interested in  
15 trying to get juvenile sturgeon data because there's  
16 been a big void in our modeling. If we could get  
17 much better knowledge of what adult sturgeon are  
18 doing -- we know that juveniles of one to three years  
19 and adults in the estuaries before they go off  
20 shore -- we don't really know where they are and how  
21 they're using the delta. We see them in troll nets.  
22 We see them at the south facilities and federal and  
23 state pumping. So we know kind of timing when they  
24 show up in greater numbers than others, but we don't  
25 know how they're actually physically using the delta,

1     how they're moving in the delta, you know,  
2     congregating in any given area, which would help set  
3     up ways to protect certain areas and maybe let other  
4     areas be used. This is all solid data that we're  
5     asking all the stakeholders if they have anything, if  
6     they can work as a coalition, a consortium to gather  
7     this data. There's still a lot of information out  
8     there where we have to make assumptions and  
9     extrapolate from what we hear.

10           MR. IVESTER: Well, I think what we'll do  
11     is -- got a number of things we need to do. Apart  
12     from talking with our members and gauging the level  
13     of interest and what areas they would like to focus  
14     on, we also need to talk with the biological and  
15     economic consultants and see what they think they can  
16     accomplish in the limited time available.

17           MR. STUART: Right.

18           MR. IVESTER: And we'll go ahead and do that.  
19     And if it turns out that -- if push comes to shove  
20     and we just think that we need more time to do this,  
21     Melissa's the person we should talk to?

22           MR. STUART: Melissa is the point of contact  
23     in Long Beach.

24           MR. IVESTER: Okay.

25           MR. STUART: This office is a point of



1 contact. I'm trying to coordinate with the Recovery  
2 Plan group, you know, which is just in its initial  
3 fledgling stages of trying to, you know, find  
4 people's interest and availability and such.

5 MR. IVESTER: Right.

6 MR. STUART: So -- but that's got to happen  
7 in a short time, too.

8 MR. IVESTER: No, I understand. And,  
9 frankly, I don't know if it's going to take all these  
10 folks more time than we have available. But if  
11 that's the way it turns out, I suppose I want to talk  
12 with her about, you know, not just trying to delay  
13 the process by a few months -- that doesn't profit  
14 anybody.

15 MR. STUART: Right.

16 MR. IVESTER: But if there's a case to be  
17 made to the judge that a lot of good things can  
18 happen if we just have, you know, three to six  
19 more --

20 MR. IVESTER: Right.

21 MR. IVESTER: -- to analyze this --

22 MR. STUART: Yeah, that's out of my realm of  
23 knowledge.

24 MR. IVESTER: Okay. Well, unless there's  
25 something else, I guess that does it for me.

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MR. STUART: Okay.  
(The public hearing was concluded at 3:30 p.m.)  
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R E P O R T E R ' S C E R T I F I C A T E

STATE OF CALIFORNIA        )  
  )  SS.  
COUNTY OF SACRAMENTO     )

I, SANDRA L. HOPPER, a certified shorthand reporter, do hereby certify that the foregoing 138 pages comprise a transcription of the proceedings had and the testimony taken at the hearing in the hereinbefore-entitled matter.

Dated this 5th day of November, 2008, at Sacramento, California.

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SANDRA L. HOPPER, CSR NO. 7110