

Volume No. 1
Official Stenographers Report
Before the
**FEDERAL ENERGY
REGULATORY COMMISSION**

IN THE MATTER OF:

DOCKET NO:

UPPER NORTH FORK FEATHER RIVER
HYDROELECTRIC PROJECT

P-2105-089

ORIGINAL

LOCATION: CHICO, CA

PAGES: 1 - 57

DATE: MAY 21, 2003

ACE - FEDERAL REPORTERS, INC.

Official Reporters

1120 G Street, NW
Washington, D.C. 20005
(202) 347-3700

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

BEFORE THE
FEDERAL ENERGY REGULATORY COMMISSION

----- -x
IN THE MATTER OF: : Docket Numbers
UPPER NORTH FORK FEATHER RIVER : P-2105-089
HYDROELECTRIC PROJECT :
----- -x

Pacific Gas & Electric Company
460 Rio Lindo Avenue
Chico, California

Wednesday, May 21, 2003

The above-entitled matter came on for scoping
meeting, pursuant to notice, at 10:20 a.m.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

APPEARANCES:

On behalf of the Louis Berger Group:

MARK H. FOREMAN

BRIAN MATTAX

CAROL EFIRD

FRANKIE GREEN

SCOTT AULT

On behalf of PG & E:

THOMAS A. JEREB

STUART K. RUNNING

MIKE MALLOY

CHUCK EVERETT

On behalf of Federal Energy Regulatory Commission:

JOHN MUDRE

1 PROCEEDINGS

2 (10:26 a.m.)

3 MR. MUDRE: My name is John Mudre, and I'm with
4 the Federal Energy Regulatory Commission. And we're here
5 today to have a scoping meeting.

6 The Federal Energy Regulatory Commission is the
7 federal agency charged with overseeing the non-federal
8 hydropower projects in the United States.

9 The Federal Energy Regulatory Commission issues
10 licenses for and oversees the operation of the non-federal
11 hydropower projects. And that's why we're here today,
12 because the license for the Upper North Fork Feather River
13 Project, FERC No. 2105, is expiring in a couple of years.

14 The licensee for the project, Pacific Gas and
15 Electric Company, has decided that they want to apply for a
16 new license for the project, and has filed their application
17 to do that.

18 The Federal Energy Regulatory Commission must
19 decide whether and under what conditions to issue a new
20 license for that project. As part of that process to
21 support the Commission's decision, Commission staff is
22 preparing an Environmental Impact Statement.

23 And part of the process of preparing an
24 Environmental Impact Statement is to conduct scoping
25 meetings, which is basically to identify what are the issues

ACE-FEDERAL REPORTERS, INC.

Nationwide Coverage

202-347-3700

800-336-6646

410-684-2550

1 that need to be looked at in our Environmental Impact
2 Statement.

3 So we're trying to determine what issues we need
4 to analyze to be able to make the proper decision on, again,
5 whether and under what conditions to issue a new license for
6 the project.

7 We have a Court Reporter here today, and
8 everything that we say is being recorded, so we can make
9 sure that it get into the official Commission record for
10 this proceeding.

11 There will be transcripts produced that are
12 available from Margaret, our Court Reporter. If you want
13 copies, see here after the meeting.

14 You can also obtain copies of the transcripts off
15 of the FERC website in about two weeks, but if you need them
16 sooner, Margaret could probably get them to you in about
17 three days or so.

18 There are microphones scattered around the tables
19 here. They don't actually amplify anyone's voice. They are
20 just connected to her recorder, but we do need to speak into
21 the microphones to make sure that whatever is said is duly
22 recorded.

23 What we're doing to do first is, I'm going to
24 have Tom Jereb give a description of the existing Upper
25 North Fork Feather River Project, and then also to describe

ACE-FEDERAL REPORTERS, INC.

Nationwide Coverage

202-347-3700

800-336-6646

410-684-2550

1 some of the changes that they're proposing in their
2 application for a new license.

3 After that, we're going to talk a little bit more
4 about scoping, our schedule for the process, and then we get
5 to the real part of the meeting, which is to obtain public
6 or agency comments on what they think is important that we
7 look at.

8 We have issued a document. We call it Scoping
9 Document 1, and they have been handed out and so are there.
10 This basically lists what we think the issues are, based on
11 a review of the application.

12 You know, we may well have missed some important
13 issues, and that's what we want to hear today. Once we get
14 back to the office and review the transcripts, we may revise
15 SD-1 and put out a new document, SD-2, which is our updated
16 document that we will work from when we begin to prepare the
17 EIS.

18 And with that, I'm going to turn the meeting over
19 to Tom.

20 MR. JEREB: Okay, thank you, John. Again, my
21 name is Tom Jereb, and I'm managing the relicensing for PG&E
22 for the Upper North Fork Feather River Project.

23 I brought a couple maps that are up here on the
24 wall that I'll be talking about, and also I have three
25 individuals here as a part of the Upper North Fork PG&E team

1 for relicensing: Chuck Everett, who deals with the
2 recreation and manages the recreation studies that were
3 done; I have Stu Running, who is an aquatic biologist; he
4 manages the aquatic biology studies that were done; and next
5 to him down here is Mike Malloy; Mike is the operating
6 superintendent who operates the system.

7 So they're here to answer questions if you have
8 any.

9 So let me first start by describing the project.
10 Maybe Stu, you could get up at the map and point as I
11 describe the facility, so that I can stay by the microphone.

12 I'll be quick on this. We have three reservoirs
13 relating to the Upper North Fork Project: Lake Almanor,
14 Butt Valley Reservoir, and Belden Forebay.

15 The water from those three reservoirs operate
16 five different powerhouses: The Butt Valley Powerhouse, the
17 Caribou I and II Powerhouses, the Oak Flat Powerhouse, and
18 the Belden Powerhouse.

19 Those five powerhouses produce enough energy for
20 about 360,000 homes here in California, and that equates to
21 about 360 megawatts, so it's an easy equation there.

22 The Project, over the last three or four years,
23 we've been evaluating and studying all the different
24 resources, and we spent about \$9 million looking at this so
25 far. We've prepared an application, and it was filed in

ACE-FEDERAL REPORTERS, INC.

Nationwide Coverage

202-347-3700

800-336-6646

410-684-2550

1 October of last year.

2 It's an eight-volume set, and it's over on the
3 counter over there in those black binders. That's the size
4 of it. It's available in the local libraries for anybody
5 that wishes to view it.

6 All of the study results and information and our
7 proposals are within that application.

8 I'd like to go over some of those proposals now
9 and spend about five minutes, and Chuck will spend about
10 five minutes, going over the proposals that are in that
11 application.

12 Those are just proposals. We are proposing those
13 to FERC, and we're open to discussion and comment on those
14 proposals.

15 We are in a collaborative effort with a number of
16 resource agencies and interested parties. We're meeting
17 regularly on a monthly basis to try and resolve the issues
18 which we have on the Project.

19 Our next meeting is tomorrow, here at 9:00.
20 We're meeting regularly and the meetings are open to the
21 public, so you're welcome to come to those, if you choose
22 to.

23 So, now let me go through the proposals that we
24 have: The first proposal is contained on page 7 of your
25 document, and if you'd turn to page 7, I'll just go through

ACE-FEDERAL REPORTERS, INC.

Nationwide Coverage

202-347-3700

800-336-6646

410-684-2550

1 this list.

2 The first bullet there -- and I'll just proceed
3 through them -- is an addition of 43 acres necessary for the
4 Project in the Caribou area for an existing spoil pond, and
5 existing road, and some penstock slope stabilization.

6 The next two bullets are related to water
7 quality. We are studying the feasibility of a temperature
8 control structure at Prattville Intake up at Almanor for the
9 possibility of taking cold water from Lake Almanor, down the
10 system to the lower Feather River Reaches for ecological
11 purposes.

12 Again, we're studying the feasibility of that.
13 No decisions have been made yet. The study of that is
14 related to an agreement that we have struck with 13
15 different parties back in the year 2000.

16 That agreement was related to the relicensing of
17 the Rock Creek-Cresta Project. That agreement then was
18 primarily incorporated into a new FERC license that was
19 issued in 2001, and so we're proceeding with the agreement
20 conditions and the conditions within the new license, as
21 looking at the feasibility for temperature control at
22 Prattville Intake.

23 The next item here is doing some gate
24 manipulation at Canyon Dam for an odor problem that we have
25 in the Fall there, relating to the water which is withdrawn

1 from that into the Seneca Reach.

2 The next several items there have to do with
3 river flows. At Canyon Dam, we're proposing to increase the
4 river flow there from 35 cfs to 75, more than doubling the
5 in-stream flow, year'round.

6 Down at Belden Forebay Dam, we're proposing there
7 to continue 140 cfs release. The current release there
8 during the summer is 140, and it switches to 60 during the
9 winter. Our proposal is to have a year'round 140 cubic feet
10 per second release at that dam.

11 We're proposing to implement a ramping rate
12 during times of spill, and when we go in spill and out of
13 spill, we would ramp up at a certain rate. This is 225 cfs
14 per hour, and then ramp down at 150 csf per hour. These are
15 primarily for ecological reasons, slow ramping up and down
16 during times when we got into spill and come out of spill.

17 The last one on river flows is to block load at
18 Belden Powerhouse at a certain flow. That's to help
19 stabilize flows downstream from Belden Powerhouse, because
20 we can turn it on and turn it off, and it does cause flow
21 fluctuations downstream, so to stabilize those, that's what
22 that measure is proposed for.

23 The next couple of items are relating to
24 fisheries. There's a fish barrier down by -- it's called
25 Gansner Bar. It's a small dam that crosses the river. It

ACE-FEDERAL REPORTERS, INC.

Nationwide Coverage

202-347-3700

800-336-6646

410-684-2550

1 was originally built to prevent the non-game fish from
2 coming up into the Belden Reach. It's not longer effective
3 and we feel that removing that would enhance the current
4 cold-water fishery, the trout spawning, so we proposed in
5 our application to remove that small concrete structure
6 across the Feather River.

7 There's another small weir, even much smaller, up
8 on Butt Creek. It's an old gauging weir, and it was put in
9 many, many years ago, and so we're planning to remove that
10 for the same reason, to improve the trout spawning.

11 From a wildlife perspective, we have a number of
12 Bald Eagle nests in the Lake Almanor area, and what we've
13 proposed to do is to continue to comply with the measures in
14 a nesting territorial plan.

15 If you turn to page 8 here, we're looking at one
16 other wildlife measure. It's a combination wildlife-
17 recreation measure.

18 There is a significant population of bramble or
19 blackberry, called Himalayan Blackberry, and we're looking
20 at some test plots down in the Belden Reach, to test two to
21 four sites for blackberry control in public access areas
22 from the road to the river. So we're looking at that.

23 Blackberries, as you all know, are particularly
24 difficult to deal with because they are hard to eradicate.
25 They are quite evasive and they're everywhere, and we're

ACE-FEDERAL REPORTERS, INC.

Nationwide Coverage

202-347-3700

800-336-6646

410-684-2550

1 looking at two to four sites to try to provide better public
2 access from the road to the river.

3 For the recreation portions, Chuck Everett will
4 cover those, and then I'll come back and address a few more
5 measures. So, Chuck?

6 MR. EVERETT: Thanks, Tom. I wanted to first
7 mention that there is a handout that was provided up front,
8 that provides a little more detailed description of the
9 phasing, but it's also pretty much the same as what's on
10 pages 8 and 9 of the Scoping Document No. 1, so you have
11 those two references.

12 First, I wanted to talk about the development of
13 a recreation resource management plan. And this is a plan
14 that was developed with input from area residents, the
15 County, Forest Service, the National Park Service, the 2105
16 Committee, and others.

17 And this was created between the draft and final
18 license application and is included in the final license
19 application. It gets into a lot of detail about the
20 facilities and how they will be maintained over the term of
21 the new license.

22 But one key point of the recreation plan is that
23 there are six programs: The first one deals with facility
24 development. These are facilities that PG&E would construct
25 over the term of the new license.

ACE-FEDERAL REPORTERS, INC.

Nationwide Coverage

202-347-3700

800-336-6646

410-684-2550

1 The second program deals with operations and
2 maintenance, how those facilities would be maintained.

3 A third program is monitoring all the activities
4 and data that will be collected over the term of the license
5 to make decisions about managing those resources and when
6 new facilities would come online.

7 Another one is integration and coordination with
8 other resources, how decisions about recreation would be
9 coordinated with other resource areas such as fisheries and
10 cultural. That includes things such as annual meetings to
11 discuss and coordinate plans.

12 Another program is updating the plan over time,
13 how that plan gets changed, and what are the actions that
14 would occur, for example, updating the plan every ten years
15 or so, as needed, so that it's not a static plan.

16 And, lastly, there is an interpretation an
17 education program that deals with providing interpretation
18 about cultural issues, resource protection, educating the
19 public in the hydroelectric project, and it would also
20 detail where signs would be located and what those messages
21 are and things like that. So that's a plan that would get
22 developed when the new license is issued.

23 Next, I wanted to kind of highlight some of the
24 proposed facilities, starting with those that were kind of
25 the initial category or the first ten years.

1 Tom's going to point out where they are on the
2 map for those who might not be familiar with the names.

3 The first category of facilities deals with
4 accessibility. Virtually every site has improvements
5 related to compliance with the Americans With Disabilities
6 Act, including amendments that should get adopted over the
7 next year or two.

8 And things like that would include: Toilets in
9 boat docks; fishing piers and platforms; picnic sites;
10 swimming areas; and these are scattered throughout the
11 Project area to improve accessibility.

12 There will be one new facility for groups at the
13 East Shore Picnic Area that would get converted from picnic
14 use to group use. This is a little-used picnic site that
15 would get created as a new group site.

16 Next there would be conversion of several sites
17 to improve access to the shoreline. These are both new
18 sites and improvements to existing sites.

19 There will be two on the North to improve access
20 to the Northern shoreline for residents in that area,
21 including the Super Channel Site near Chester and a little
22 bit to the West, and, in downtown Chester, the Stover Ranch
23 site.

24 On the eastern side, there would be two new
25 sites, Westwood Beach and Stumpy Beach, which would be day-

ACE-FEDERAL REPORTERS, INC.

Nationwide Coverage

202-347-3700

800-336-6646

410-684-2550

1 use access sites.

2 And then on the western and southern ends, there
3 are four sites. These would include a new site at Rocky
4 Point Campground for day use; this would be a new site
5 conversion; Canyon Dam day-use area would get some
6 improvements. This is a fairly well used site.

7 A new site is the PSAE Swim Beach in the
8 Prattville area, and then, finally, improvements to the
9 Almanor Beach, which is a Forest Service facility, to
10 improve the swimming access at that location.

11 There are also several boat launch improvements
12 proposed, the first one being extension of the Canyon Dam
13 Boat Launch, which is a Forest Service facility. PG&E is
14 proposing to co-fund extension of that, getting the facility
15 eventually down to 4467. The Lake rarely gets to that
16 level, but the proposal is to increase the launch ramp at
17 ten-foot increments when that's possible to do that.

18 Also there will be a brand new boat launch, a
19 \$1.5 million proposed facility at the North Shore
20 Campground. This would be a new public boat launch with its
21 own separate access to provide boat launching on the
22 northern shoreline area where a boat launch doesn't
23 currently exist.

24 Additional boat launch improvements would include
25 the Alder Creek Boat Launch on Butt Valley Reservoir,

ACE-FEDERAL REPORTERS, INC.

Nationwide Coverage

202-347-3700

800-336-6646

410-684-2550

1 providing additional capacity at that location for launching
2 boats on Butt Valley Reservoir, and also a new cartop boat
3 launch at the Belden Forebay. No launch exists there right
4 now, so that would provide access for small boats onto that
5 Forebay area.

6 To expand some camping capacity in this first
7 phase would include an additional 20 sites at the Rocky
8 Point Campground. That's the new name for the old Lake
9 Almanor Campground, PG&E's facility.

10 To improve and protect resources along the
11 southwest shoreline access area, PG&E is proposing to work
12 with the Forest Service to provide improved developed access
13 points, approximately four of those in the southwest
14 shoreline area.

15 What that would include would be providing
16 graveled road and parking areas down to the 4500 foot
17 elevation, and then closing and rehabilitating a number of
18 other existing roads to protect resources.

19 PG&E is proposing to also provide easements
20 across company lands for trail development. These would be
21 trails that would be developed by either the Forest Service,
22 the Parks and Recreation District or others.

23 In Butt Valley Reservoir, we're proposing some
24 improvements to angler access up by the Powerhouse area, by
25 providing two improved access points, include 80-A access

1 and trails in that location.

2 On the western side of Butt Valley Reservoir,
3 we're proposing two areas that would include both walk-in
4 and boat-in disperse access points, so that's a new facility
5 in those locations.

6 Down at the Belden rest stop, we're proposing
7 some renovation of that facility, including additional
8 picnic facilities and improvements to 80-A access
9 interpretation, and toilet facilities.

10 And all during this initial ten-year period, PG&E
11 would also begin permitting process and collection of
12 easements for other facilities that would be constructed in
13 the next ten- to 20-year period.

14 So kind of in the next phase after the first ten
15 years, a lot of these facilities would be triggered by
16 monitoring activities which would demonstrate that the
17 facilities are needed, based on capacity. But a few of
18 these are also items that would be done in this period,
19 anyway.

20 The first of those would be construction of a new
21 campground facility called the East Shore Campground. This
22 is proposed to be approximately 95 campsites, both RV and
23 tent, and include a day-use facility.

24 It's proposed in three phases. Those phase would
25 like be constructed as need is demonstrated. So that's a

ACE-FEDERAL REPORTERS, INC.

Nationwide Coverage

202-347-3700

800-336-6646

410-684-2550

1 brand-new facility at about \$7 million, I believe. So
2 that's kind of the largest new facility we have proposed.

3 But there are also plans to expand a few other
4 campgrounds to provide additional capacity as need is
5 demonstrated, and those include additional sites at Last
6 Chance Campground at the far northern tip, and Ponderosa
7 Flat Campground on Butt Valley Reservoir.

8 Also in this second phase, there are plans to
9 expand two group sites at Camp Conery and Ponderosa Flat to
10 provide new facilities for groups; also to improve the
11 Almanor Scenic Overlook, which is near the dam, to provide
12 additional picnicking and other facilities there and
13 interpretation.

14 In the northern area, Catfish Beach, there it is.
15 This is a facility that we would need to acquire easements
16 across adjacent private lands, but the site itself is on
17 PG&E property, and we're proposing there, new day-use and
18 primitive camping opportunities with improved road access to
19 that location.

20 Also along Butt Valley Reservoir, there are plans
21 for a new trail that would extend from the powerhouse
22 angling access area, all the way down to Cool Springs
23 Campground along the eastern shoreline.

24 There are a few other actions that relate to
25 recreation: PG&E is supporting the County in adopting a new

ACE-FEDERAL REPORTERS, INC.

Nationwide Coverage

202-347-3700

800-336-6646

410-684-2550

1 ordinance that would restrict vehicular access below the
2 4500 foot elevation, so that would keep people out of
3 sensitive areas, including cultural areas, and a new
4 ordinance would give local law enforcement the authority to
5 then cite people that are down in that area.

6 Assuming that that new ordinance is adopted, PG&E
7 is proposing to provide additional funding to the County for
8 additional law enforcement patrols.

9 PG&E is also proposing to continue to negotiate a
10 memorandum of understanding. This is an agreement between
11 the Company and the County for marking hazards and removing
12 hazards on the water. This is an ongoing activity.

13 Finally, there are plans to provide additional
14 signs and pamphlets to inform boaters of underwater
15 conditions. This would be like a topographic map showing
16 where shallow areas are, and hazards, and islands, to give
17 people more information about the conditions they may find
18 out on the water.

19 There is also, in parallel to the recreation
20 plan, a shoreline management plan that is included in the
21 final license application. This includes provisions for
22 shoreline erosion and shoreline permitting. Thanks.

23 MR. JEREB: If we turn to page 9, you can follow
24 along with me at the bottom of page 9, where we have some
25 aesthetic resource improvements we're proposing.

1 These generally are painting, vegetative,
2 plantings, some spoil pile regrading and contouring, and
3 some road work.

4 Turn to page 10, and this moves us into the last
5 three bullets there relating to cultural and historic
6 resources. We're proposing a cultural resource management
7 plan, and a draft of it is in the application, and that plan
8 contains measures for the protection of cultural resource
9 sites.

10 We're proposing protection of several National
11 Historic-eligible Sites also. All of these would be
12 implemented, these cultural sites would be implemented as
13 soon as we get the license, which we're expecting sometime
14 hopefully in 2004.

15 That concludes our proposal within the
16 application. John?

17 MR. MUDRE: Thank you very much, Tom. Next, I
18 would like to introduce Frankie Green. Frankie is with the
19 Louis Berger Group. And they are FERC's support contractor
20 for preparing environmental documents.

21 Frankie and her team will be preparing the
22 Environmental Impact Statement for the Commission.
23 Frankie?

24 MS. GREEN: Thank you, John. I'd like to
25 introduce the rest of the team who are here with me today.

1 We'll all be working together with John Mudre to prepare the
2 Environmental Impact Statement for this project.

3 To my far right is a member of the public; he's
4 not part of my team.

5 (Laughter.)

6 MS. GREEN: Next to him is Jeff Murphy, one of
7 the fisheries biologists working with me; Carol Efird is our
8 recreation specialist; Scott Ault is another fisheries
9 biologist; Mark Foreman is the engineer working on this
10 project, and next to me is Brian Mattax, who is our water
11 quality specialist.

12 I'll be managing the team, managing the project,
13 and also addressing terrestrial issues in this document.

14 In addition, we have a cultural resources
15 specialist who is not with us today, as well as some other
16 support staff members, but this is the primary team working
17 on this. Our cultural resources specialist has been working
18 with the local members of the Native American community to
19 work on various issues.

20 Anyway, that's our team. John mentioned that we
21 are here for scoping. I spoke to Mr. Alexander, briefly,
22 about the purposes of scoping. I thought I'd just touch on
23 that briefly at the beginning of my talk.

24 As I mentioned to Mr. Alexander, we're here to
25 collect information on all of the issues related to the

ACE-FEDERAL REPORTERS, INC.

Nationwide Coverage

202-347-3700

800-336-6646

410-684-2550

1 project, anything that we may not have mentioned in our
2 scoping document, we need to hear from you today.

3 We need to determine how significant the issues
4 are that have been listed in the scoping document before
5 you. I also would like to know if any of these issues will
6 contribute to cumulative impacts in the watershed.

7 We have our -- we think we know which issues
8 will, but we would like to hear from you if you've got some
9 other ideas on that.

10 In addition to the proposal that PG&E has put
11 before you, we'd also like to know if there are any other
12 alternatives that should be addressed in the Environmental
13 Impact Statement.

14 Also, if there any issues or resource areas that
15 we have mentioned that are not very significant, that should
16 be focused on, we'd like to know that as well.

17 So we'd like to start with our schedule. This is
18 the scoping meeting. The scoping document was issued at the
19 end of April.

20 We will revise that scoping document, based on
21 any comments we receive. Comments are due -- if there are
22 any written comments, they are due by June 20th, so I just
23 don't want anybody to forget that date. That is very
24 critical.

25 Based on those comments and testimony we have

ACE-FEDERAL REPORTERS, INC.

Nationwide Coverage

202-347-3700

800-336-6646

410-684-2550

1 received at the meeting last night and today, we'll revise
2 the scoping document, issue the second scoping document by
3 the end of July 2003.

4 At about that same time, we anticipate issuing --
5 FERC anticipates issuing a Notice that the application is
6 ready for Environmental Analysis. And that's when the
7 actual analysis will begin.

8 We expect to have a Draft Environmental Impact
9 Statement ready for review by the public in January of 2004,
10 and a final Environmental Impact Statement in July of 2004.

11 Between the Draft and the Final Environmental
12 Impact Statement, there will be a public meeting. If we
13 have totally missed the mark on any of the issues that are
14 addressed, then that gives you an opportunity to provide
15 comments. If you think we did a good job, we'd like to hear
16 that, too, but especially if we've missed something very
17 critical, that's when you get an opportunity to tell us
18 that.

19 Any comments you provide on this scoping document
20 do need to go to the Secretary of the Commission. The
21 address is provided in the scoping document. It's also on
22 the screen in front of you. Once again, the comments need
23 to be submitted by June 20th.

24 Please make sure you include the name of the
25 project and Project Number 21052105, so that it gets

ACE-FEDERAL REPORTERS, INC.

Nationwide Coverage

202-347-3700

800-336-6646

410-684-2550

1 included on the proper record at the Commission.

2 So now I'm going to go through the resources
3 issues that we have identified. As John mentioned and Tom,
4 I think, as well, behind Mr. Alexander and Bob and Mike over
5 there, are the volumes the very eight volumes of the license
6 application that were submitted to FERC in October.

7 We have gone through those and determined what we
8 think are issues that should be addressed, anything that may
9 be affected by the operations of the project, as well as any
10 measures that are proposed or are recommended to the
11 Commission. So I am just going to briefly go through those.

12 There are seven resource issues that we have
13 touched on in our scoping document. Those include: Water,
14 aquatic resources, terrestrial resources, threatened and
15 endangered species, recreation, land use and aesthetics, and
16 development resources.

17 So, starting with water resources, which is
18 what's before us, we're going to look at the effect of the
19 project operation on a variety of thing, including:
20 Sediment supply and transport; flows in the Upper North Fork
21 Feather River and Butt Creek; the effects of project
22 operations on Lake Almanor water surface levels, and on the
23 temperatures of the water.

24 Several of these items will have asterisks next
25 to them, and that indicates that we anticipate addressing

1 those items in our Cumulative Effects Analysis. If we've
2 also missed something on that, please make sure you point
3 that out in either your written or oral testimony.

4 Moving on, we're looking at potential deep-water
5 releases from Prattville and Caribou No. 2, and we want to
6 see the effects on water temperatures in the Lake Almanor
7 and Upper North Fork Feather River, based on that; and the
8 effect of Lake Almanor cloud-seeding on any trace metals and
9 odors in the Upper North Fork Feather River.

10 We're also interested in the effects of any
11 project-related recreation on water quality in Lake Almanor.
12 That includes coliform bacteria, as well as MTBEs.

13 We're also looking at the effects of flow
14 releases on the determination of flow releases that protect
15 and enhance a variety of species and their habitats, as well
16 as the overall aquatic system in the bypass reaches
17 downstream of the Canyon and Butt Valley Dams and in the
18 North Fork Feather River downstream of the Belden Forebay.

19 And then we get into species of concern. The one
20 that comes to mind for aquatics is Hardhead. We want to
21 know if there are any effects on Hardhead, based on any flow
22 releases that are recommended to the Commission.

23 We are also interested in the effects of project
24 discharges from Lake Almanor and the Butt Valley Reservoir
25 on water temperatures and whether or not there's a need to

1 enhance temperature conditions for trout downstream of Lake
2 Almanor.

3 We're interested in the effects on project
4 operations on the amount of large woody debris in the
5 project area, as well as any associated fish habitat.

6 We want to know about the effects of fish
7 barriers, either human-made or natural, on Rainbow Trout
8 movement and distribution in the North Fork Feather River.

9 We're also interested in the effects of reservoir
10 levels on tributary access for various salmonid species,
11 either native or introduced.

12 We're interested in the effects of turbine
13 entrainment at the project powerhouses on a variety of
14 species, both Forest Service-sensitive species and other
15 fish species.

16 And we're also interested in the effects of any
17 potential recreation flows on aquatic habitat and species.
18 Those would include any whitewater flows that may be
19 anticipated in this project area.

20 We're also concerned that there may be some
21 effect on potential for whirling disease in the project
22 reservoirs, based on a change in project operations.

23 Moving on to terrestrial resources, we're
24 interested if there are any effects of flow releases on the
25 reservoir streams and associated wetlands.

ACE-FEDERAL REPORTERS, INC.

Nationwide Coverage

202-347-3700

800-336-6646

410-684-2550

1 There are two deer herds in the project area, and
2 we're wondering if there any effect with changing project
3 operations on either the winter range or summer range for
4 those two deer herds. They migrate through this project
5 area.

6 We want to know the effects of any flow release
7 on riparian vegetation and wetlands, as well as wildlife
8 habitat, and if there is any way to minimize those impacts.

9 We're interested in managing any noxious weeds
10 that are on project lands at a variety of the facilities
11 associated with the project.

12 We're also interested if there are any effects of
13 project operations on any associated mitigation measures on
14 a variety of special status plants and animals, including
15 Forest Service-sensitive species, Forest Service special
16 interest species, Forest Service Watch List Species, and
17 California Species of Concern.

18 As you can see, there are a variety of plants and
19 animals on this list, and if there any effects on those
20 species, we are going to determine if there are any measures
21 appropriate to minimize those impacts.

22 Our next resource area is threatened and
23 endangered species, sort of building on the terrestrial
24 issue. And there are a variety of species. I have decided
25 to handle this a little differently today, so bear with me.

ACE-FEDERAL REPORTERS, INC.

Nationwide Coverage

202-347-3700

800-335-6646

410-684-2550

1 There are a variety of species in this project
2 area or their habitats that are in the project area that are
3 either listed by the Federal Government or by the State of
4 California as threatened or endangered. The include: The
5 Bald Eagle, the Valley Elderberry Longhorn Beetle, the
6 California Red-Legged Frog, Peregrine Falcon, Willow
7 Flycatcher, Greater Sand Hill Crane, California Wolverine,
8 Sierra Nevada Red Fox, Hairy Orcutt Grass, and Slender
9 Orcutt Grass, Greene's Tuctoria, Hoover Spurge, and Layne's
10 Ragwort.

11 And some of those are Forest Service-sensitive
12 species. Our scoping document covers all of those, but
13 rather than list them all here, I thought I would give
14 everybody a break today.

15 (Laughter.)

16 MS. GREEN: Anyway, moving on to recreation --
17 wasn't that nice to run right through that endangered
18 species section?

19 (Laughter.)

20 MS. GREEN: We're looking at the effects of the
21 proposed action and any alternatives to the proposed action
22 on recreation access to project waters and to existing
23 recreational activities and future recreational activities
24 within the project area.

25 We're also trying to determine the ability of the

1 existing recreational facilities to meet current and future
2 demand, and that includes accessibility needs for
3 individuals who have special needs.

4 We're also looking at the potential effects on
5 the proposed action and any alternatives on any angling
6 opportunities in the bypassed reached, and that would
7 include any altered flows. If we change any of the minimum
8 flows or if there are any recreational flows, we would need
9 to determine if that affects recreation, including angling.

10

11 We need to determine if there will be effects on
12 the community of Chester if we expand the existing
13 recreation facilities or increase the number of recreation
14 facilities in the project area. We anticipate that there
15 would be an increased recreational usage and a variety of
16 other possible or potential problems of increased litter,
17 increased fire potential, effects on public safety.

18 We also need to determine if any proposed actions
19 are within the recreation opportunity spectrum of
20 classifications included in the National Forest Land and
21 Resource Management Plans for both the Plumas and Lassen
22 National Forests.

23 Moving on to land use and aesthetics, which was
24 that last one sort of started, we also need to determine if
25 we are -- we need to make sure that any proposed actions or

ACE-FEDERAL REPORTERS, INC.

Nationwide Coverage

202-347-3700

800-336-6646

410-684-2550

1 alternatives are compliant with the Sierra Nevada Forest
2 Plan Amendment that amended both the Plumas and Lassen
3 National Forest Land and Resource Management Plans.

4 We also need to make sure the proposed action and
5 any alternatives are consistent with the Plumas County
6 General Plan, including their land use zones and any
7 elements relevant to the project, including open space,
8 scenic highways, noise, safety, conservation.

9 We need to make sure we're consistent with the
10 Bureau of Land Management's Eagle Lake Resource Area
11 objectives.

12 The licensee has proposed adding 34 acres of the
13 Plumas National Forest to the project area for penstock
14 maintenance and spoil management. We would just need to
15 check on the effects of adding that acreage.

16 We need to determine if there are any effects of
17 any flows on active mining claims in the North Fork Feather
18 River. We also need to determine if there will be effects
19 on law enforcement and fire management demands in the
20 project area due to the construction of several proposed
21 residential development projects near the project area.

22 We also need to determine if there will be any
23 effects on static resources in the project, based on the
24 project's operations.

25 Now, we're going to look briefly at cultural

1 resources. There are some other people working more on that
2 issue, and we just need to determine if there will be any
3 effects of the project operations and any proposed
4 enhancement measures on prehistoric and historic
5 archeological resources, as well as sites of cultural or
6 religious importance.

7 In this area, we're primary concerned with all
8 members of the Maidu and including the Greenville and
9 Susanville Rancherias.

10 And, finally, we're also concerned if there will
11 be any effects on any proposed mitigation or enhancement
12 measures on project economics. We'll be looking at the
13 economics of all of these proposals and their effects on the
14 project.

15 So those are the resource issues that we have
16 gleaned from that eight-volume license application. If
17 there are other issues that we need to address, we'd like to
18 hear those now, or you could please submit some written
19 testimony by June 20th to the Commission at that address.

20 So --

21 MR. JEREB: Thank you, Frankie. What we're going
22 to do at this point is hear any comments that people here
23 have, and then after that, if in our question-and-answer
24 session, we'll entertain some questions and try to give you
25 the answers.

1 The first individual signed up today to speak is
2 Michael Condon.

3 MR. CONDON: Good morning, my name is Michael
4 Condon. I'm the Ecosystem Planning Staff Officer from the
5 Plumas National Forest. I'm working with an
6 interdisciplinary team of folks from both the Plumas and
7 Lassen Forest, because the project crosses both forest
8 boundaries.

9 We've got aquatic biologists, terrestrial
10 biologists, hydrologists, and recreation specialists, all
11 working together to try and provide input for our 4E
12 conditions. I don't want to comment on those specifically;
13 I'd like to limit my comments today just to the scope of the
14 analysis.

15 Before I do that, I would like to commend the
16 folks that we've been working with, Tom Jereb and his team
17 from PG&E. I have been real impressed with the
18 professionalism of the PG&E staff and their contractors in
19 their willingness to work on this in a collaborative
20 process. It's made it a real rewarding and fruitful
21 exercise, I think, and we're going to continue working in
22 that vein and hopefully get to a settlement agreement in a
23 time that will dovetail nicely with the analysis that you
24 will be doing.

25 With regard to the scope of the analysis, I just

ACE-FEDERAL REPORTERS, INC.

Nationwide Coverage

202-347-3700

800-336-6646

410-684-2550

1 wanted to offer a few comments, one of which I think you've
2 heard already, having to do with the scheduling of this, via
3 a vis the Hamilton Branch Amendment.

4 As far as I can tell, everybody agrees that
5 adding the Hamilton Branch facilities to the license is
6 probably a very good idea, but there's a lot of concerns
7 about adding it to this license application and what that
8 does to our schedule and the ability to do a quality job in
9 now what's becoming a fairly limited amount of time.

10 So we hope you'll take that into consideration,
11 and if that application actually does get filed, you'll
12 consider the best way to do it, so that it doesn't impact
13 this particular application that we're working on now.

14 I would also like to comment on in terms of the
15 scope of the analysis, the cumulative effects. It struck me
16 that rather than limiting the cumulative effects analysis to
17 some specific issues, that probably anytime you've got a
18 direct or an indirect effect, there's reason to look at it
19 in a cumulative effect sense, so it would be good, I think,
20 to broaden that out to virtually all the issues.

21 And if there is no cumulative effect, at least
22 discuss why we think there isn't a cumulative effect. There
23 is also a little bit of a concern about the geographic
24 extent of the cumulative analysis.

25 Clearly, being at the upper end of the watershed

ACE-FEDERAL REPORTERS, INC.

Nationwide Coverage

202-347-3700

800-336-6646

410-684-2550

1 and the upper end of a series of projects, anything that
2 happens on this project has the potential to affect the
3 downstream projects, so stopping the cumulative effects
4 analysis at the border with the Rock Creek Cresta Project
5 may limit the analysis unduly, so we'd like you to consider
6 extending that, at least down through Lake Orville.

7 With respect to some of the specific issues, I
8 think, generally, we agree with the issues that you have
9 identified, and I just had a few comments, maybe, in terms
10 of the details of those issues.

11 As you know, one of the requirements for the
12 project is to be consistent with the Land and Resource
13 Management Plans in place, including the Forest Land and
14 Resource Management Plan. Ours, as you are aware, was
15 amended by the Sierra Nevada Framework not too long ago, and
16 there are some specific direction in there on hydro project
17 relicensing.

18 Basically it gives us some guidance to start out
19 by looking at the natural hydrograph. It doesn't lock us
20 into exactly -- you know, we're not bound by that.
21 Obviously, we can't restore it, but the guidance is there
22 that we should try and mimic that natural hydrograph.

23 Given that guidance and the Land and Resource
24 Management Plan, it's a bit of a red flag to us, anytime
25 that there are deviations from that. It doesn't mean

ACE-FEDERAL REPORTERS, INC.

Nationwide Coverage

202-347-3700

800-336-6646

410-684-2550

1 they're show-stoppers, but it gives us cause to step back
2 and ask why, and so it's something that needs to be
3 analyzed.

4 As a for instance, the fairly flat-line baseflows
5 throughout the year, that's not in sync with the natural
6 hydrograph, so that's something that needs to be looked at
7 and perhaps an alternative considered.

8 Likewise, pulses during any time of year that are
9 out of sync with that natural pattern, throw up a little bit
10 of a red flag and would need some careful analysis.

11 Clearly, water is at the crux of the issue here,
12 so we're very interested in the flows in the River, how well
13 they mimic the natural hydrograph. We're also interested in
14 the Lake level and the temperatures, both in the Lake and in
15 the River.

16 We recognize that it's a balancing act, trying to
17 satisfy all those sometimes-competing needs. We are working
18 through the collaborative process, analyzing some flow
19 schedules and looking, with the help of the analysts from
20 PG&E, looking at how those affect the various parameters of
21 Lake level and flow, and that we're hoping, in our
22 settlement process, that we'll be able to come up with a
23 proposal that may serve as an alternative to flows that have
24 been provided by PG&E at this point.

25 I guess it's related to the aquatic resources and

1 there's been some mention of a proposal by PG&E to look at
2 eliminating or reducing the blackberries. In all honesty,
3 I'm not very hopeful that we'll find a way to do that, but
4 if we are able to, I would suggest that it's not just an
5 issue of access to the River for recreational uses, although
6 that may be a reasonable place to start the task.

7 But we're really interested in any opportunities
8 to restore the natural repairing of vegetation to those
9 systems. The static flows that we have had in there over
10 the years have basically allowed the Himalayan Blackberry to
11 take over and eliminate a lot of the native riparian
12 vegetation, and that's an issue.

13 Another concern that the Forest Service has, kind
14 of spans both the terrestrial and aquatic resources, and
15 Jackie did a really good job -- Frankie, excuse me -- of
16 explaining the full range of species that need to be looked
17 at this morning. It was even better than last night.

18 (Laughter.)

19 MR. CONDON: But there is a group of species
20 that's missing from that list. In order to assure that -- I
21 won't go through them one-by-one, I promise, but I'll
22 provide you the list if you don't have it already -- but in
23 order to assure consistency with the Forest Service plans,
24 we're required to have an analysis of the effects of any
25 project on Forest Service Management Indicator Species.

1 MS. GREEN: Sure, thank you.

2 MR. CONDON: That's another piece that so far is
3 missing from the PG&E application.

4 On the recreation resources, that's been pretty
5 well articulated at this point, and obviously that's a big
6 concern to the Forest Service.

7 A lot of the focus, unfortunately, in our Land
8 Management Plans, is sort on the quantity side of that, you
9 know, providing facilities to meet demand. And I think the
10 FERC regulations are worded somewhat similarly.

11 We also have concerns with respect to recreation
12 about the quality of the experience. And I'm glad there was
13 some mention of staying within the recreational opportunity
14 spectrum. But we want to provide recreation facilities and
15 access to meet visitor demand, but not at the expense of the
16 quality of the experience. That's very important.

17 There are a couple of other subissues within
18 recreation that we think are equally important. The focus
19 has been on facilities' access and accessibility, which we
20 certainly agree on, but there are also issues related to
21 safety and there are also issues related to opportunities
22 for interpretation.

23 You know, when you look at this project and how
24 it fits in with the whole stairway of power and the
25 ecosystems it sits in, there's a tremendous opportunity to

ACE-FEDERAL REPORTERS, INC.

Nationwide Coverage

202-347-3700

800-336-6646

410-684-2550

1 educate the public. I won't mention anything about last
2 night, but there's obviously a tremendous need to educate
3 the public about how this project works and what impact it
4 really has on the resources that are so important to folks.

5 Finally, on the development resources issue, that
6 was a fairly brief statement there, so maybe we're on the
7 same page. But what I would hope is that when you look at
8 the economics of the project, that we're not looking
9 strictly at kind of the financial feasibility from the
10 perspective of the licensee, but considering the full range
11 of costs and benefits to the public.

12 That's a very important issue to the folks in
13 Plumas County, in particular. And that's the end of my
14 comments.

15 MS. GREEN: Thank you.

16 MR. MUDRE: Thank you, Michael. Those were very
17 good comments. Michael was the only one that indicated that
18 the form that he wanted to provide --

19 MS. GREEN: Christie said she wanted to comment.

20 MR. MUDRE: Oh, there's a hidden one. The second
21 speaker today will be Christie Goodman.

22 MS. GOODMAN: I'm Christie Goodman, the Natural
23 Resources Analyst for Plumas County. I work mostly on
24 stewardship issues in the Flood Control and Conservation
25 District in Public Works under Tom Hunter.

1 I'm also a staff assistant to the 2105 Committee,
2 which is a duly-appointed committee by the Board of
3 Supervisor of Plumas County, and includes a large amount of
4 stakeholders, including the Forest Service, PG&E, County
5 residents, and professionals from various resource agencies.

6 The 2105 Committee was able to make a
7 presentation last night, so I will only hit briefly on those
8 topics. The number one priority for Plumas County and the
9 2105 Committee is the Lake Level Agreement, which through
10 the assistance of the Forest Service and PG&E's
11 representatives, I think that we're doing a good job. I
12 would also like to thank PG&E for its professionalism and
13 willingness to come to the table.

14 Besides the Lake Level Agreement, we're also
15 looking at a water quality monitoring plan, a comprehensive
16 recreation plan, an erosion plan, and a safety plan. And we
17 have presented these goals and objectives to PG&E last year.
18 I think it was in February.

19 And since the draft license application has come
20 out, Plumas County is looking at alternatives to the flow
21 schedules, the shoreline management plan, the safety plan,
22 the Lake Level Agreement, and water quality monitoring
23 plans.

24 We also have some socioeconomic concerns, which
25 in your scoping document, you cited as not being possibly

1 important as other factors. And this reservoir is not only
2 a source of income for PG&E, but also for the residents of
3 Plumas County, and we would like you to reconsider that in
4 your scoping document.

5 I think that we've come a long way to an
6 agreement with PG&E on many issues, but we still have a long
7 way to go. And we would like FERC to consider the
8 advantages of the collaborative process, and hope that we
9 will not be short-shrifted on ways to implement and discuss
10 alternatives for the management of Lake Almanor. That's all
11 I have to say.

12 MR. MUDRE: Thank you, Christie. Is there anyone
13 who has changed their mind and wants to provide oral
14 testimony? We can take that now.

15 (No response.)

16 MR. MUDRE: Otherwise, if there are any
17 questions, you can ask the question, and whoever is best
18 suited to answer it, I'm sure will be glad to answer it.

19 (No response.)

20 MR. MUDRE: Barring anything further, then --

21 MS. GREEN: I have some questions, if nobody else
22 does.

23 (Laughter.)

24 MS. GREEN: My turn again. I had some questions
25 for PG&E. Based on some of the things that I learned from

1 going through the license application, I had some questions.

2 There were a few studies or analyses underway
3 that were mentioned. I'm not sure what their status is. I
4 just want to ask you that.

5 One was the Cold Water Feasibility Study that was
6 being conducted by the University of Iowa. I understand its
7 scheduled completion is this Spring or was this Spring. Do
8 you know when we would see that or when that is going to be
9 available.

10 MR. JEREB: The Cold Water Feasibility Study done
11 by the University of Iowa is a modeling study for modeling
12 the Prattville Intake and its area with a real model to
13 determine the effectiveness of certain structures that could
14 be implemented there.

15 And the results of that are forthcoming very
16 soon, probably within a month or two.

17 MS. GREEN: Okay, so by July, do you think? Or
18 you're not certain, but maybe?

19 MR. JEREB: Yeah. It's forthcoming. Bechtel
20 Corporation is working with us on that.

21 MS. GREEN: Okay.

22 MR. JEREB: And so Christie and Mike have been
23 more directly involved with that.

24 PARTICIPANT: I think the July date is
25 reasonable.

ACE-FEDERAL REPORTERS, INC.

Nationwide Coverage

202-347-3700

800-336-6646

410-684-2550

1 PARTICIPANT: I can't hear that.

2 MS. GREEN: He said July of 2003.

3 MR. ALEXANDER: My name is Marvin Alexander, and
4 I'm a member of the 2105 Committee. And the only reason I'm
5 doing this and taking your time is because I think I can
6 provide a unique perspective.

7 I have been working with PG&E with about eight
8 different vice presidents for over 30 years. I have
9 outlived them all.

10 (Laughter.)

11 MR. ALEXANDER: So I do bring an historical
12 background that I think will be invaluable to you folks who
13 are going to try to look at the broad picture in trying to
14 solve the many, many problems.

15 I want to commend Tom Jereb for his infinite
16 patience in listening to people like me over all of these
17 many months.

18 I want to step back a little in time. The
19 license that's expiring was put together when Lake Almanor
20 was simply an isolated mountain lake. So, consequently, the
21 1954 license, which is being replaced, didn't have to pay
22 any attention at all to the public. There was no public
23 here at the time.

24 So it was a total, almost, if I can use the word,
25 a virginal forest up here. Then shortly after the license

ACE-FEDERAL REPORTERS, INC.

Nationwide Coverage

202-347-3700

800-336-6646

410-684-2550

1 went into effect, suddenly the Lake was discovered, and
2 there has grown up around this Lake, a whole recreation
3 community.

4 First there was Lake Almanor Country Club. There
5 are like 2,000 homes there. Then came a few years later,
6 Lake Almanor West. There's about 600-700 homes there.
7 Then, more recently, Bailey Creek opened up.

8 I think they will eventually have maybe 1200 to
9 2000 homes there. But the point is that the past -- the
10 current license, which is expiring, didn't recognize the
11 need at all for any kind of recreation planning.

12 But since that time, there's been an enormous
13 growth of recreational demands on the Lake. And then the
14 most recent one is the projected Dire Mountain ski resort
15 and home development.

16 So all of these particular -- these are
17 recreation communities. They are putting a great deal of
18 recreational pressure on the Lake.

19 Now, it brings us to the crux of the problem.
20 The people who have come up there, who have invested
21 literally hundreds of millions of dollars to build their
22 recreation homes, look upon this as a -- Lake Almanor -- as
23 a beautiful recreational body of water.

24 And yet PG&E looks upon it as a corporate asset,
25 and so these are two dichotomies that are in conflict with

ACE-FEDERAL REPORTERS, INC.

Nationwide Coverage

202-347-3700

800-336-6646

410-684-2550

1 one another. And the situation is made more pressure-filled
2 by virtue of the projected growth.

3 There's an enormous projected growth of
4 recreation in that area, because there is the confluence of
5 the Lassen National Forest, the Plumas National Forest, the
6 Park, there are all these different recreational facilities
7 that are magnets for the public to come up to that area. So
8 there's a projected growth of enormous pressure for
9 recreational uses on Lake Almanor.

10 So it is incumbent upon this license to somehow
11 bring together the recreational needs of a growing public
12 and the needs of the PG&E. This, I think, is the most
13 difficult job of this new license.

14 I saw this problem coming, and because this new
15 license was going to be so important, it was I that insisted
16 that the County, that the Plumas County Board of
17 Supervisors, which is the governing agency in the area,
18 assume responsibility of the negotiations for the license.

19 And that's why you are, in effect, negotiating
20 with the 2105 Committee, which is a committee of Plumas
21 County.

22 There are certain fundamentals that we have
23 regarded as essentials, and one of the fundamentals and one
24 of the most difficult ones to solve, is the Lake level. In
25 order to have a viable recreational community, which is the

ACE-FEDERAL REPORTERS, INC.

Nationwide Coverage

202-347-3700

800-336-6646

410-684-2550

1 basis of the economic basis of the County and of the area,
2 in order to be viable, there has to be a predictable quality
3 of water during the summer recreational season.

4 And so this is one of the most difficult of the
5 license problems to solve to achieve a water level during
6 the summer recreational months that is relatively
7 predictable. This is a hydromanagement problem. We regard
8 that as probably one of the key elements of the new license.

9
10 The second one is the maintenance and protection
11 of the water quality. The quality of the water in a Lake
12 like that is very sensitive. There are so many problems, so
13 many potential problems for pollution, that there has to be
14 an ongoing and effect water quality program. Those are the
15 two most important areas.

16 The third area that I have always felt was very
17 essential was to provide public access, increase public
18 access in a controlled fashion, with particular -- one of my
19 pet requirements is to try to get access, recreational
20 access to the Lake for the local citizens. It's a sad
21 commentary that there is no Lake access to the people of
22 Chester.

23 This is largely a result of the peculiar Lake
24 formation. The shoreline makes it very difficult to achieve
25 that.

ACE-FEDERAL REPORTERS, INC.

Nationwide Coverage

202-347-3700

800-336-6646

410-684-2550

1 So, at any rate, those are the three problems
2 that I would like to have looked at very carefully: A
3 predictable water level; a guarantee of water quality; and
4 additional public access.

5 And I thank you for this opportunity. I hadn't
6 counted on this when I came, but I appreciate it.

7 MR. MUDRE: Thank you, Marvin.

8 MS. GREEN: Thank you for your comments, Marvin.

9
10 I have a couple more questions for PG&E. Oh,
11 when you get the results of the Cold Water Feasibility Study
12 that I mentioned earlier, will that be filed with the
13 Commission when you get it, or how do you anticipate putting
14 that on the record?

15 MR. JEREB: Well, the results will first come to
16 a group that's working on this issue as a part of the Rock
17 Creek Cresta settlement agreement, as a part of the Rock
18 Creek Cresta license. So that information will be processed
19 through that group.

20 We can then file it with you as a part of the
21 2105 project, if you desire.

22 MS. GREEN: I think it would be helpful to have
23 that information on the record. I would appreciate that.

24 MR. JEREB: All right.

25 MS. GREEN: And that was another question I had;

ACE-FEDERAL REPORTERS, INC.

Nationwide Coverage

202-347-3700

800-336-6646

410-684-2550

1 was it going to be filed as Rock Creek Cresta or 2105.

2 MR. JEREB: Rock Creek Cresta Project does have a
3 requirement to file that stuff on an annual basis, but that
4 report, of course, would not come into till early next year.
5 But as part of the process for this relicensing, it could
6 come in through that, so we could file that.

7 MS. GREEN: Thank you, great. My second
8 question: I read that there was a second sampling effort
9 underway, evaluating human health levels of PCBs. I'm not
10 sure when that was supposed to be completed. It may have
11 been completed, and I may have overlooked that.

12 MR. JEREB: Yes, we're conducting two additional
13 elements. One is additional water quality sampling. And
14 that relates to both chemistry and coliform sampling.

15 And then there is a second series of sampling
16 where we're conducting fish tissue -- some additional fish
17 tissue analysis for PCBs and heavy metals. And those are
18 expected to be -- the water quality is expected to be done
19 over the 4th of July week for the coliform issues.

20 MS. GREEN: So will you conduct that actually
21 then?

22 MR. JEREB: Pardon me?

23 MS. GREEN: Excuse me. You're going to actually
24 conduct that sampling the 4th of July week?

25 MR. JEREB: Yes, the coliform sampling, the first

ACE-FEDERAL REPORTERS, INC.

Nationwide Coverage

202-347-3700

800-336-6646

410-684-2550

1 week -- excuse me -- the last week in June and the first
2 several weeks in July.

3 MS. GREEN: Okay.

4 MR. JEREB: That's the coliform sampling. The
5 water quality sampling is ongoing. You saw the individual
6 out there yesterday, one of our staff, installing some
7 additional water quality monitoring systems.

8 The fish tissue analysis, Stu Running here is
9 managing that. Stu, would you like to tell us about the
10 fish tissue analysis?

11 MS. GREEN: Thank you.

12 MR. RUNNING: Yeah, I worked out a program. Last
13 year, we got started in about, I think, probably late
14 October or November of last year. And we're able to reflect
15 about two-thirds of the fish species that we agreed upon
16 before it gets too cold and we weren't finding species. So
17 we're planning on going back in probably the first or second
18 week of June to hopefully collect the remaining species and
19 numbers of fish.

20 It will be provided to the CDF&G lab in Rancho
21 Cordova, like we had provided the first samples. We have
22 not yet received any of the results back yet from Ranch
23 Cordova. They have ben extremely slow in processing the
24 results back to us, but, again, hopefully we'll get those
25 final fish collected here in the next few weeks.

ACE-FEDERAL REPORTERS, INC.

Nationwide Coverage

202-347-3700

800-336-6646

410-684-2550

1 MS. GREEN: And do you anticipate when you'll put
2 that information -- when the results of that will be on the
3 record for this project?

4 MR. RUNNING: We are kind of at the whim of Fish
5 and Game providing it to us. Our two choices were to go
6 back to our previous lab and then send a subsample to Fish
7 and Game for processing, or to go to Fish and Game and
8 eliminate that additional double effort. So, we wanted to
9 kind of minimize the costs and reduce anybody's concerns
10 about accuracy of the results. So we anticipate with weeks
11 of getting that information, it will be provided to Tom and
12 we can get that to you guys for your analysis.

13 MS. GREEN: Great. You mentioned that yesterday,
14 and I just wanted it on the record that you're waiting.

15 MR. RUNNING: Sure.

16 MS. GREEN: Waiting, waiting, waiting.

17 Is that the -- I just want to clarify, Stu, with
18 you, is that the same as the sampling for the total mercury
19 concentrations that were scheduled in October?

20 MR. RUNNING: Correct, right. After this
21 project, we're looking at total mercury and PCBs at various
22 locations, depending upon issues.

23 MS. GREEN: Okay. I just saw something that was
24 scheduled for October, and I wasn't sure if that had been
25 done yet or if there were results from that.

ACE-FEDERAL REPORTERS, INC.

Nationwide Coverage

202-347-3700

800-336-6646

410-684-2550

1 MR. RUNNING: We were able to get most of the
2 species from Butt Valley Reservoir, with the exception
3 small-mouthed bass, which we were not able to pick any fish.
4 We were not able to successfully get any suckers from Belden
5 Forebay; we were able to get all the fish from the River
6 below disposal pile for analysis, so that part is done, and
7 we're just waiting for those results.

8 MR. MUDRE: Just to follow up on that, Stu, did
9 you mean methyl mercury or total mercury for the edible
10 flesh?

11 MR. RUNNING: We worked out looking for total
12 mercury because 97 percent of the total mercury is methyl
13 mercury, so we're looking at that as a substitute to give us
14 a good cost savings.

15 MR. MUDRE: Because the FDA standards are
16 expressed in terms of methyl mercury.

17 MR. RUNNING: This is what we had worked out. We
18 had talked with Fish and Game and also the Office of Health
19 or whatever.

20 MR. MUDRE: Okay.

21 MS. GREEN: Okay. And I saw a comment from the
22 State Water Resources Control Board, and so I'm glad to see
23 you're working with her.

24 Is the data associated with the temperature
25 modeling available to us?

ACE-FEDERAL REPORTERS, INC.

Nationwide Coverage

202-347-3700

800-336-6646

410-684-2550

1 MR. RUNNING: Which temperature modeling?

2 MS. GREEN: I'd have to go back to the license
3 application. NOAA Fisheries folks apparently commented on
4 that. I'm sorry, I'd have to go get the license
5 application. I can do that if you want me to.

6 MR. MATTAX: I can jump in there. I think the
7 thing that -- sorry, I'm Brian Mattax from Berger.

8 I believe what we're looking for on that one is -
9 - there are a couple of things: One is, we don't have, I
10 don't believe, any access to the model and how it was
11 exactly calibrated, et cetera. And so it's really
12 divergent, what we want.

13 But so the fish guys need some or could use some
14 information dealing with Butt Valley bathymetry, for
15 instance, which I presume is built into that model. So that
16 would be a plus.

17 Also, it would be good to see what your
18 assumptions, et cetera, are, and I guess some of the things
19 that we were alluding to the other day, there are so many
20 scenarios that could be run. And it appeared, from my
21 review, that what was in the application was increased
22 releases from the dam, and maintaining similar generation
23 and not foregoing any generation.

24 And, obviously, that affects water surface
25 levels, and so we wanted to get a good handle on what,

ACE-FEDERAL REPORTERS, INC.

Nationwide Coverage

202-347-3700

800-336-6646

410-684-2550

1 exactly, you have done in that. And I personally would like
2 to see some different alternatives, other than just the one
3 that's in the record, or at least that I believe is in the
4 record, based on my understanding.

5 MR. JEREB: This is Tom Jereb here. We've been
6 modeling and evaluating the Feather River water temperatures
7 issue since 1986, and so we've done a tremendous amount of
8 modeling relating to many different scenarios, and that
9 information is forthcoming and can be made available.

10 Through our collaborative group, we're evaluating
11 as we speak, many scenarios, just as you requested, various
12 reservoir operation levels, combined with various generation
13 levels, combined with various in-stream flow levels
14 affecting water temperatures.

15 And so we have actually three different models
16 we're using that each feed into each other. We have a
17 gentleman by the name of Dr. Tu, Scott Tu, who is our water
18 quality scientist, who is the lead on a lot of the water
19 quality sampling, and Dr. Bruce McGuirke, who is our
20 hydrology modeler and operations modeler, so both doctors
21 are working simultaneously with our collaborative group.
22 They're on our teams to model as many different scenarios as
23 we can, so that information can be made available.

24 I have to ask, what do you want?

25 MS. GREEN: Sure, we can do that.

1 MR. JEREB: There are hundreds of model scenarios
2 which we're modeling.

3 MR. MATTAX: Have you provided a list of what the
4 different scenarios are?

5 MR. RUNNING: Yes. We're working on this with a
6 subcommittee to the 2105 group, and we have developed a
7 series of scenarios, both in the Seneca Reach and Belden
8 Reach at -- we are running through Bruce's model first, and
9 then looking at also various water classifications. Then
10 that information will be given to Scott Tu, which then he'll
11 run through as temperature models.

12 I know that as of our last meeting, Scott has
13 like 28 runs he has to do, and each run takes about half a
14 day. We're also looking at different generation and storage
15 scenarios as to where it comes from, but it will take a
16 little while to get all this together, but we are actively
17 doing this.

18 MS. GREEN: Okay, thank you. And I just have one
19 more question. I understand that water samples were being
20 collected, measuring mercury, lead, and silver, in the Fall
21 of 2002, Spring of 2003, and Summer of 2003. When will
22 results of that information be available?

23 MR. RUNNING: You probably saw Charlie out there
24 yesterday collecting those, exactly when we were out there
25 doing our surveys.

ACE-FEDERAL REPORTERS, INC.

Nationwide Coverage

202-347-3700

800-336-6646

410-684-2550

1 MS. GREEN: Right.

2 MR. RUNNING: I'm not sure what the exact
3 timeframe on that is. Scott Tu would also be the
4 appropriate person to respond to that.

5 MR. JEREB: The sampling supplements the sampling
6 that we did.

7 MS. GREEN: I'm sorry, I meant to say that. I
8 understand that.

9 MR. JEREB: We had a problem with the change in
10 the criteria that was over the time of our sampling, and,
11 therefore necessitating us to do additional sampling at the
12 request of the Water Board.

13 MS. GREEN: Right, that was my understanding. I
14 was just curious about when you anticipated having the
15 results of that additional sampling available. And it
16 sounds like it will be late, if you're still planning to do
17 some this summer.

18 MR. RUNNING: Right, it probably wouldn't be till
19 late Summer, early Fall. As we continue sampling through
20 the early and late summer, we wouldn't be expecting results
21 till late Summer or early Fall, probably, from that.

22 MS. GREEN: Okay.

23 MR. MUDRE: But in theory, you may be able to
24 provide the Fall and Spring data.

25 MR. RUNNING: We can certainly check into that

ACE-FEDERAL REPORTERS, INC.

Nationwide Coverage

202-347-3700

800-336-6646

410-684-2550

1 and see what is currently available and written up. As you
2 know, it's easier to collect it than analyze it, so --

3 MS. GREEN: Yes.

4 MR. RUNNING: With people's schedules, sometimes
5 they are so busy collecting it in the summertime, that they
6 don't have time to do much more than collect it.

7 MS. GREEN: Sure. Thank you. That's all the
8 questions I have.

9 MR. MUDRE: Thank you.

10 MR. AULT: I have some questions. This is Scott
11 Ault. I have a few questions for PG&E.

12 In the license application, you stated that a
13 third-year fish population sampling was being conducted in
14 the project area. Can you tell us when the results of those
15 will be available?

16 MR. RUNNING: This is Stu Running. I got the
17 first tables and graphs last week from that, and I'm
18 expecting initial writeup from the consultant very briefly
19 so that I can check on format and style, as we try to
20 integrate three years' of data into one final report.

21 So I'm hoping to get that out the door in the
22 next couple of months as well, but probably not for at least
23 two months.

24 MR. AULT: Two months? Okay, thank you.

25 And also in your license application, you

ACE-FEDERAL REPORTERS, INC.

Nationwide Coverage

202-347-3700

800-336-6646

410-684-2550

1 mentioned that there was some additional sampling done on
2 potential natural fish barriers by the methodology --

3 MR. RUNNING: Forest Service.

4 MR. AULT: Yes, Forest Service fish crossing
5 methodology. Can you tell me when the results of that will
6 be done.

7 (Loud hammering and laughter.)

8 MR. RUNNING: Do you think that syncopated?

9 (Laughter.)

10 MR. RUNNING: This is Stu Running. That report
11 is supposed to be due to me last week, and I have been out
12 in the field so much that I haven't gotten back to the
13 consultant to find out why it hasn't been shipped to my in-
14 basket yet, so later today or tomorrow I'll get back to you
15 on it. I'll check with the consultant to see where that is,
16 but I was informed two weeks ago that that report was -- a
17 draft version was produced.

18 (Loud hammering.)

19 MR. RUNNING: The powers that be.

20 (Laughter.)

21 MR. RUNNING: That report, as a draft report,
22 should be available this week to me, so that I will have
23 time to review it, hopefully within the next two weeks I'll
24 get that and finalize it and have that available to you for
25 that process as well.

ACE-FEDERAL REPORTERS, INC.

Nationwide Coverage

202-347-3700

800-336-6646

410-684-2550

1 MR. MATTAX: Sometime like the end of June,
2 maybe, do you think?

3 MR. RUNNING: Yes, I think so, yes.

4 MR. MATTAX: Okay, thank you.

5 MR. RUNNING: Again, the Forest Service
6 methodology only refers to culvert crossings for the
7 analysis.

8 MR. MATTAX: That's it.

9 MS. GREEN: Thank you, Scott. Does anybody else
10 on this team, the Berger Team, have any other questions for
11 the licensee while we're all here?

12 (No response.)

13 MS. GREEN: Thank you very much.

14 MR. MUDRE: Okay, I guess our timing was pretty
15 good. The big woodpecker didn't land until the very end.

16 (Laughter.)

17 MR. MUDRE: I want to thank everyone for coming
18 today, and we look forward to working with all of you, as
19 this progresses. We are adjourned.

20 (Whereupon, at 11:46 a.m., the scoping meeting
21 was adjourned.)

22

23

24

25

CERTIFICATE OF OFFICIAL REPORTER

This is to certify that the attached proceedings before the
FEDERAL ENERGY REGULATORY COMMISSION in the Matter of:

Name of Proceeding:

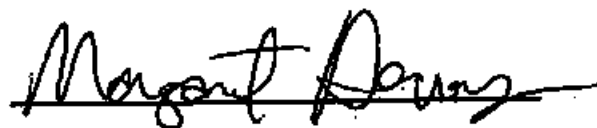
UPPER NORTH FORK FEATHER RIVER
HYDROELECTRIC PROJECT

Docket No.: P-2105-089

Place: CHICO, CALIFORNIA

Date: May 21, 2003

were held as herein appears, and that this is the original
transcript thereof for the file of the Federal Energy Regulatory
Commission, and is a full correct transcription of the
proceedings.



Official Reporter

**Look-See
Concordance Report**

UNIQUE WORDS: 1,635
TOTAL OCCURRENCES:
4,679
NOISE WORDS: 388
TOTAL WORDS IN FILE:
11,302

SINGLE FILE
CONCORDANCE

CASE SENSITIVE

INCLUDES ALL TEXT
OCCURRENCES

DATES ON

INCLUDES PURE
NUMBERS

POSSESSIVE FORMS
ON

- DATES -

April [1]
21:19
February [1]
38:18
January of 2004 [1]
22:9
July [5]
40:17, 24; 48:19, 24;
47:2
July, 2003 [1]
22:3
July of 2003 [1]
41:2
July of 2004 [1]
22:10
June [3]
47:1, 18; 58:1
June 20th [3]
21:22; 22:23; 30:19
May 21, 2003 [1]
1:14
November [1]
47:14
October [5]
7:1; 23:8; 47:14; 48:19,
24

- \$ -

\$1.5 [1]
14:19
\$7 [1]
17:1
\$9 [1]
6:24

- 1 -

1 [2]
5:8; 11:10
10 [1]
19:4
10:20 [1]
1:17

10:28 [1]
3:2
11:48 [1]
58:20
1200 [1]
42:8
18 [1]
8:14
140 [3]
9:7, 8, 9
150 [1]
8:14
1964 [1]
41:21
1986 [1]
51:7

- 2 -

2 [1]
24:5
2,000 [1]
42:5
20 [1]
15:7
20-year [1]
18:13
2000 [2]
8:15; 42:9
2001 [1]
8:19
2002 [1]
52:21
2003 [5]
1:14; 22:3; 41:2; 52:21
2004 [3]
18:14; 22:9, 10
20th [3]
21:22; 22:23; 30:19
21 [1]
1:14
2105 [10]
3:18; 11:15; 38:1, 8, 9;
41:4; 43:20; 45:21; 46:1;
52:8
21052105 [1]
22:25
228 [1]
9:19
28 [1]
52:19

- 3 -

30 [1]
41:8
34 [1]
28:12
35 [1]
8:4
380 [1]
8:21
380,000 [1]
6:20

- 4 -

43 [1]
8:3
4457 [1]
14:15
4500 [2]

15:16; 18:2
480 [1]
7:17
4E [1]
31:17
4th [2]
48:19, 24

- 6 -

60 [1]
9:8
600-700 [1]
42:6

- 7 -

7 [2]
7:24, 25
75 [1]
9:4

- 8 -

8 [2]
10:15; 11:10
80-A [2]
15:25; 16:8

- 9 -

9 [3]
11:10; 18:23, 24
95 [1]
18:22
97 [1]
49:12
9:00 [1]
7:19

- A -

a.m. [3]
1:17; 3:2; 58:20
ability [2]
27:25; 32:8
able [10]
4:4; 34:22; 35:4; 38:8;
47:14; 49:1, 3, 4, 5;
53:29
above-entitled [1]
1:16
access [3]
10:21; 11:2; 13:17, 18;
14:1, 10, 21; 15:4, 11,
12, 24, 25; 18:4, 8;
17:18, 22; 18:1; 25:10;
27:22; 35:5; 38:15, 18;
44:17, 18, 19, 20, 21;
45:4; 50:10
accessibility [4]
13:4, 11; 28:2; 38:19
accuracy [1]
48:10
achieve [2]
44:5, 24
acquire [1]
17:16
acres [1]
29:15
acree [2]
8:3; 29:12
Act [1]

13:6
act [1]
34:16
action [4]
27:21; 28:5; 29:4
actions [4]
12:13; 17:24; 28:18, 26
active [1]
29:17
activity [1]
52:16
activities [4]
12:3; 16:16; 27:23
activity [1]
18:12
actual [1]
22:7
adding [4]
29:12, 15; 32:5, 7
addition [3]
8:3; 20:14; 21:10
Additional [1]
14:24
additional [18]
15:1, 7; 16:7; 17:4, 5,
12; 18:7, 8, 13; 45:4;
48:12, 13, 16; 47:7;
48:8; 53:11, 16; 55:1
address [4]
11:4; 22:21; 30:17, 19
addressed [3]
21:12; 22:14; 23:8
addressing [2]
20:13; 23:25
adjacent [1]
17:18
adjourned [2]
58:19, 21
adopted [2]
13:6; 18:6
adopting [1]
17:25
advantages [1]
39:8
aesthetic [1]
18:25
aesthetics [2]
23:15; 28:23
affect [2]
33:2; 34:20
affected [1]
23:9
affecting [1]
51:14
affects [2]
28:9; 50:24
agencies [2]
7:16; 38:5
agency [3]
3:7; 5:6; 43:17
agree [2]
33:8; 38:20
agreed [1]
47:15
Agreement [3]
38:9, 14, 22
agreement [8]
8:14, 16, 17, 18; 18:10;
31:22; 39:6; 45:17
agrees [1]
32:4

Alder [1]
14:25
ALEXANDER [2]
41:3, 11
Alexander [4]
20:21, 24; 23:4; 41:3
allowed [1]
35:10
aluding [1]
50:19
Almanor [10]
6:13; 8:3, 9; 10:12; 14:9;
15:9; 17:11; 23:22; 24:6;
8, 11, 24; 25:2; 39:10;
41:19; 42:4, 6, 22; 43:9
altered [1]
28:7
alternative [2]
34:7, 23
alternatives [3]
21:12; 27:21; 28:5; 29:1,
5; 38:20; 39:10; 51:2
amended [2]
28:2; 33:15
Amendment [2]
29:2; 32:3
amendments [1]
13:6
American [1]
20:18
Americans [1]
13:5
amount [4]
25:4; 32:9; 38:3; 51:7
amplify [1]
4:19
analyses [1]
40:2
Analysis [2]
22:8; 24:1
analysis [17]
22:7; 31:14, 23, 25;
32:15, 16, 24; 33:4, 5;
34:10; 35:24; 46:17;
47:8, 10; 48:12; 49:6;
58:7
Analyst [1]
37:29
analysts [1]
34:19
analyzes [2]
4:4; 54:2
analyzed [1]
34:3
analyzing [1]
34:18
angle [1]
15:24
angling [3]
17:22; 28:5, 9
animals [2]
28:14, 19
annual [2]
12:10; 48:3
answer [3]
6:7; 38:18
answers [1]
30:25
anticipate [3]
22:4; 23:25; 28:14;
45:13; 48:1, 10

anticipated [2]
26:19; 53:14
anticipates [1]
22:5
anybody [3]
7:4; 21:23; 58:9
anybody's [1]
48:9
anyone's [1]
4:19
anytime [2]
32:17; 33:24
Anyway [2]
20:20; 27:18
anyway [1]
18:19
apparently [1]
50:3
APPEARANCES [1]
2:1
appeared [1]
50:20
application [28]
3:18; 5:2; 11; 6:25; 7:7;
11; 10:5; 11:18; 18;
18:21; 18:7; 18; 22:5;
23:8; 30:16; 32:7; 11;
13; 38:3; 38:18; 40:1;
50:3; 5; 21; 54:12; 25
apply [1]
3:15
appreciate [2]
45:8; 23
appropriate [2]
28:21; 53:4
approximately [2]
15:13; 16:22
April [1]
21:19
aquatic [2]
8:3; 4; 23:14; 24:18;
25:17; 31:3; 34:25;
35:14
aquatics [1]
24:20
archaeological [1]
30:5
Area [2]
13:13; 29:10
area [35]
8:4; 10:12; 11:14; 13:11;
20; 14:5; 8; 22; 15:5; 11;
14; 24; 17:14; 22; 18:5;
25:5; 18; 26:1; 5; 22;
27:2; 24; 28:14; 29:13;
20; 21; 30:7; 40:12;
43:4; 7; 17; 44:1; 16;
54:14
areas [10]
10:21; 12:9; 13:10;
15:16; 18:3; 18:3; 16;
21:14; 44:15
articulated [1]
36:5
asset [1]
42:24
assistance [1]
38:10
assistant [1]
38:1
associated [5]

25:5; 25; 26:11; 13;
48:24
assume [1]
43:18
Assuming [1]
18:6
assumptions [1]
50:18
assure [2]
35:20; 23
asterisks [1]
23:24
attention [1]
41:22
AULT [4]
2:8; 54:10; 24; 55:4
Ault [2]
20:8; 64:11
authority [1]
18:4
available [12]
4:12; 7:4; 40:8; 48:26;
51:3; 23; 52:22; 53:16;
54:1; 15; 55:22; 24
Avenue [1]
1:11
aware [1]
33:14

- B -

background [1]
41:12
bacteria [1]
24:12
Bakley [1]
42:7
balancing [1]
34:18
Bald [2]
10:12; 27:5
Bar [1]
9:25
barrier [1]
9:24
barriers [2]
25:7; 55:2
Barring [1]
39:20
Bass [2]
21:25; 39:25
bass [5]
5:10; 18:17; 21:20; 24:7;
21; 25:22; 29:23; 51:4
basinflows [1]
34:4
Basicity [1]
33:18
basically [3]
3:25; 5:10; 35:10
basin [4]
7:17; 44:1; 46:3
base [1]
49:3
bathymetry [1]
50:14
Beech [5]
13:25; 14:7; 9; 17:14
bear [1]
26:25
beautiful [1]

42:23
Bechtel [1]
40:19
becoming [1]
32:9
Beetle [1]
27:5
behalf [3]
22; 10; 18
behind [1]
23:4
Belden [12]
8:14; 18; 9:5; 18; 19;
10:2; 20; 15:3; 16:6;
24:18; 49:4; 52:7
believe [4]
17:1; 50:8; 10; 51:3
ben [1]
47:23
benefits [1]
37:11
Berger [4]
2:2; 19:18; 50:7; 58:10
Besides [1]
38:14
binders [1]
7:3
biologist [2]
6:3; 20:9
biologists [3]
20:7; 31:8; 10
biology [1]
6:4
bit [5]
5:3; 13:22; 32:23; 33:24;
34:9
black [1]
7:3
Blackberries [1]
10:23
blackberries [1]
35:2
Blackberry [2]
10:18; 35:10
blackberry [2]
10:18; 21
block [1]
8:17
Board [4]
35:2; 43:16; 49:22;
53:12
Boat [2]
14:13; 25
boat [5]
13:9; 14:11; 18; 20; 21;
22; 24; 15:2
boat-in [1]
16:4
boaters [1]
18:14
boats [2]
15:2; 4
Bob [1]
23:4
body [1]
42:23
border [1]
33:4
bound [1]
33:20
boundaries [1]

- C -

31:8
bramble [1]
10:18
Branch [2]
32:3; 5
brand [1]
14:18
brand-new [1]
17:1
break [1]
27:14
BRIAN [1]
2:5
Brian [2]
20:10; 50:7
brief [1]
37:6
briefly [3]
20:21; 23; 23:11; 29:25;
38:7; 54:18
brings [1]
42:19
broad [1]
41:13
broaden [1]
32:20
Bruce [1]
51:19
Bruce's [1]
52:8
build [1]
42:21
building [1]
26:23
bull [2]
10:1; 50:15
bullet [1]
8:2
bullet [2]
8:6; 18:5
Bureau [1]
29:10
busy [1]
54:5
Bull [14]
8:14; 18; 10:8; 14:25;
15:2; 23; 18:2; 17:7; 20;
23:21; 24:17; 24; 49:2;
50:14
bypass [1]
24:18
bypassed [1]
28:6

calibrated [1]
50:11
California [3]
1:12; 8:20; 26:17; 27:4;
6; 7
call [1]
5:8
Camp [1]
17:9
Campground [3]
14:4; 20; 15:8; 9; 16:21;
17:6; 7; 29
campground [1]
16:21
campgrounds [1]

17:4
camping [2]
15:8; 17:18
campsites [1]
16:22
Canyon [5]
8:24; 9:3; 14:5; 12;
24:17
capacity [4]
15:1; 6; 16:17; 17:4
careful [1]
34:10
carefully [1]
45:2
Caribou [3]
6:17; 8:4; 24:5
CAROL [1]
2:8
Carol [1]
20:7
cartop [1]
15:2
category [2]
12:25; 13:3
Catfish [1]
17:14
CDF [1]
47:20
cavern [2]
50:11; 18
cfs [3]
9:4; 7; 13
Chance [1]
17:9
change [5]
25:22; 28:7; 53:9
changed [2]
12:13; 39:13
changes [1]
5:1
changing [1]
20:2
Channel [1]
13:21
charged [1]
3:7
Charlie [1]
52:29
check [4]
29:15; 53:25; 64:18;
55:15
chemistry [1]
48:14
Charter [4]
13:21; 22; 28:12; 44:21
Chico [1]
1:12
choices [1]
48:5
choose [1]
7:21
Christie [3]
37:19; 21; 22; 39:12
40:22
CHUCK [1]
2:14
Chuck [4]
6:1; 7:9; 11:3; 5
cils [1]
18:5
cited [1]

38:25	38:2; 43:20	37:10	45:10; 50:8; 54:22	17:17
citizens [1]	communities [1]	consistency [1]	course [1]	days [1]
44:20	42:17	35:23	46:4	4:17
claims [1]	community [4]	consistent [3]	Court [2]	deal [2]
28:17	20:18; 28:12; 42:3;	29:5; 9; 38:12	4:7, 12	10:24; 42:17
clarify [1]	43:25	construct [1]	cover [1]	dealing [1]
48:17	Company [3]	11:24	11:4	50:14
classifications [2]	1:10; 3:15; 18:11	constructed [2]	covers [1]	deals [3]
28:20; 52:9	company [1]	18:12, 25	27:12	6:1; 11:23; 12:1, 17;
closing [1]	15:20	construction [2]	Crane [1]	13:3
15:17	completed [2]	16:20; 29:20	27:7	debris [1]
cloud-seeding [1]	46:10, 11	consultant [3]	created [2]	25:4
24:8	completion [1]	54:18; 55:13, 15	11:17; 13:15	decide [1]
Club [1]	40:7	contained [1]	Creek [3]	3:19
42:4	compliance [1]	7:24	10:8; 14:25; 23:21; 33:4;	decided [2]
co-fund [1]	13:5	contains [1]	42:7; 45:17, 18; 46:1, 2	3:15; 26:24
14:14	compliant [1]	19:8	Creek-Crests [1]	decision [2]
Cold [3]	28:1	continue [5]	8:17	3:21; 4:4
40:5, 10; 45:11	comply [1]	9:7; 10:13; 18:3; 31:21;	Crests [5]	decisions [3]
cold [2]	10:13	53:19	33:4; 45:17, 18; 46:1, 2	8:13; 12:5, 8
8:9; 47:16	comprehensive [1]	contouring [1]	criteria [1]	deep-water [1]
cold-water [1]	38:15	19:2	53:10	24:4
10:4	concentrations [1]	contractor [1]	critical [2]	dear [2]
colliform [5]	48:19	19:19	21:24; 22:17	26:1, 4
24:12; 48:14, 19, 25;	Concern [1]	contractors [1]	crosses [2]	demand [3]
47:4	28:17	31:18	9:25; 31:7	28:2; 36:3, 15
collaborative [3]	concerns [4]	contribute [1]	crossing [1]	demande [2]
7:18; 31:18; 34:18; 39:8;	24:18; 32:23; 36:13;	21:8	55:4	28:18; 42:13
51:10, 21	36:8	Control [2]	crossings [1]	demonstrate [1]
collect [4]	concerned [3]	37:24; 49:22	58:8	16:16
20:25; 47:16; 54:2, 6	25:20; 30:7, 10	control [3]	crux [2]	demonstrated [2]
collected [3]	concerns [4]	8:8, 21; 10:21	34:11; 42:19	16:25; 17:5
12:4; 47:25; 52:20	concludes [1]	controlled [1]	cul [1]	depending [1]
collecting [2]	19:15	44:18	8:14	48:22
52:24; 54:5	concrete [1]	conversion [2]	cubic [1]	describe [2]
collection [1]	10:5	13:16; 14:5	9:9	4:25; 6:11
16:11	conditions [3]	converted [1]	cultural [11]	describing [1]
combination [1]	3:19; 4:5; 8:20; 18:15,	13:13	12:10, 18; 18:3; 19:5, 6;	6:9
10:16	17; 25:1; 31:12	Cool [1]	8, 12; 20:14, 17; 29:28;	description [2]
combined [2]	CONDON [3]	17:22	30:5	4:24; 11:8
51:12, 13	31:3; 35:18; 36:2	coordinate [1]	culvert [1]	desire [1]
coming [3]	Condon [2]	12:11	58:8	45:21
10:2; 43:14; 58:17	31:2, 4	coordinated [1]	Cumulative [1]	detail [2]
command [2]	conduct [3]	12:9	24:1	11:18; 12:20
31:15; 41:15	3:24; 46:20, 24	coordination [1]	cumulative [5]	detailed [1]
comment [5]	conducted [2]	12:7	21:8; 32:15, 16, 18, 21,	11:8
7:13; 31:12; 32:14;	40:6; 54:13	copies [2]	22, 24; 33:3	details [1]
37:18; 49:21	conducting [2]	4:13, 14	curious [1]	33:10
commentary [1]	46:12, 16	Cordova [2]	53:14	determination [1]
44:21	Canary [1]	47:21, 23	current [4]	24:14
commented [1]	17:9	corporate [1]	9:7; 10:3; 28:1; 42:10	determine [13]
50:3	conflict [1]	42:24	currency [2]	4:3; 21:3; 26:20; 27:25;
Comments [1]	42:25	Corporation [1]	14:23; 54:1	28:9, 11, 18, 24; 29:18,
21:21	confluence [1]	40:20		18, 22; 30:2; 40:13
comments [14]	43:4	cost [1]	- D -	determined [1]
5:6; 21:21, 22, 25;	connected [1]	49:14		23:7
22:15, 19, 22; 30:22;	4:20	costs [2]	Dam [5]	developed [5]
31:13; 32:1; 33:9; 37:14,	consequently [1]	37:11; 48:9	8:24; 9:3, 6; 14:5, 12	11:14; 12:22; 15:12, 21
17; 45:8	41:20	counted [1]	9:10, 25; 17:11; 50:22	52:6
COMMISSION [1]	Conservation [1]	45:6	Dams [1]	development [7]
1:2	37:24	counter [1]	24:17	11:12, 24; 15:20; 23:16
Commission [14]	conservation [1]	7:3	data [4]	29:21; 37:5; 42:15
2:18; 3:4, 6, 9, 18, 21;	29:8	Country [1]	12:4; 49:24; 53:24;	deviations [1]
4:9; 19:22; 22:20; 23:1,	consider [3]	42:4	54:20	33:25..
11; 24:22; 30:18; 45:13	32:12; 33:5; 39:7	County [16]	date [2]	dichotomies [1]
Commissioner's [1]	32:10	11:15; 17:25; 18:7, 11;	21:23; 40:24	42:25
3:21	consideration [1]	29:5; 37:13, 23; 38:3, 4,	day [3]	differently [1]
Committee [5]	32:10	8, 20; 39:3; 43:16, 21;	14:4; 50:19; 52:14	26:25
11:16; 38:1, 6, 9; 41:4;	considered [1]	44:1	day-use [4]	difficult [5]
43:20	34:7	couple [7]	13:25; 14:5; 16:20;	10:24; 43:13, 24; 44:4,
committee [2]	considering [1]	3:13; 5:23; 9:20; 36:17;		24

Dire (1)
 42:14
 direct (1)
 32:18
 direction (1)
 33:16
 Disabilities (1)
 13:5
 discharges (1)
 24:24
 discovered (1)
 42:1
 discuss (3)
 12:11; 32:22; 39:9
 discussion (1)
 7:13
 disease (1)
 25:21
 disperse (1)
 16:4
 disposal (1)
 49:8
 distribution (1)
 25:8
 District (2)
 15:22; 37:25
 divergent (1)
 50:12
 Docket (1)
 1:5
 docks (1)
 13:9
 doctors (1)
 51:20
 Document (2)
 5:8; 11:10
 document (17)
 5:8; 15; 16; 7:25; 20:13;
 21:2; 4; 16; 20; 22:2; 19;
 21; 23:13; 27:12; 38:25;
 39:4
 documents (1)
 19:20
 doesn't (4)
 14:22; 32:12; 33:19; 25
 dollars (1)
 42:21
 door (1)
 54:21
 double (1)
 48:8
 doubling (1)
 8:4
 dovetail (1)
 31:23
 downstream (3)
 9:18; 21; 24:17; 18;
 25:1; 33:3
 downturn (1)
 13:22
 Draft (2)
 22:8; 11
 draft (3)
 11:17; 19:7; 38:19;
 55:17; 21
 due (4)
 21:21; 22; 29:20; 55:11
 duly (1)
 42:1
 duly-appointed (1)
 38:2

- E -

Es (2)
 15:9; 36:10
 Eagle (3)
 10:12; 27:5; 28:10
 early (4)
 48:4; 53:19; 20; 21
 easements (3)
 15:19; 16:12; 17:15
 easer (1)
 54:2
 East (2)
 13:13; 16:21
 eastern (2)
 13:24; 17:23
 easy (1)
 6:21
 ecological (2)
 8:10; 9:15
 economic (1)
 44:1
 economics (3)
 30:12; 13; 37:8
 Ecosystem (1)
 31:4
 ecosystems (1)
 36:25
 edible (1)
 49:9
 educate (2)
 37:1; 2
 educating (1)
 12:18
 education (1)
 12:17
 effect (11)
 23:18; 24:8; 25:21; 26:2;
 32:18; 19; 21; 22; 42:1;
 43:18; 44:14
 effective (1)
 10:2
 effectiveness (1)
 40:13
 Effects (1)
 24:1
 effects (30)
 23:21; 24:8; 10; 13; 21;
 23; 25:3; 6; 9; 12; 16;
 24; 26:6; 12; 19; 27:20;
 28:4; 11; 17; 29:16; 16;
 18; 23; 30:3; 11; 13;
 32:15; 16; 33:3; 35:24
 effort (2)
 7:15; 48:8; 48:8
 EFRD (1)
 2:6
 Efrd (1)
 20:7
 eight (2)
 23:5; 41:7
 eight-volume (2)
 7:2; 30:16
 EIS (1)
 5:17
 Elderberry (1)
 27:5
 Electric (2)
 1:10; 3:15
 elements (3)
 29:7; 44:8; 48:13

elevation (2)
 15:17; 18:2
 eliminate (2)
 35:11; 48:8
 eliminating (1)
 35:2
 end (7)
 21:19; 22:3; 32:25; 33:1;
 37:13; 58:1; 15
 endangered (4)
 23:15; 26:23; 27:4; 17
 ends (1)
 14:2
 ENERGY (1)
 1:2
 Energy (5)
 2:16; 3:4; 6; 9; 18
 energy (1)
 6:19
 enforcement (3)
 18:4; 8; 29:19
 engineer (1)
 20:9
 enhance (3)
 10:3; 24:15; 25:1
 enhancement (2)
 30:4; 11
 enormous (3)
 42:12; 43:3; 8
 entertain (1)
 30:24
 entrapment (1)
 25:13
 Environmental (10)
 3:22; 24; 4:7; 18:22;
 20:2; 21:12; 22:6; 8; 10;
 11
 environmental (1)
 19:20
 equally (1)
 35:18
 equate (1)
 6:20
 equation (1)
 6:21
 eradicate (1)
 10:24
 erosion (2)
 18:22; 38:16
 essential (1)
 44:17
 essentials (1)
 43:23
 et (2)
 50:11; 18
 evaluating (4)
 6:23; 48:9; 51:6; 10
 evade (1)
 10:25
 eventually (2)
 14:16; 42:8
 EVERETT (2)
 2:14; 11:6
 Everest (2)
 6:1; 11:3
 everybody (2)
 27:14; 32:4
 exact (1)
 63:2
 exactly (4)
 33:20; 50:11; 51:1;

52:24
 example (1)
 12:14
 exception (1)
 49:2
 Excuse (1)
 46:23
 excuse (2)
 35:15; 47:1
 exercise (1)
 31:21
 exel (1)
 14:23
 existing (2)
 4:24; 8:4; 5; 13:18;
 15:18; 27:22; 28:1; 12
 exlets (1)
 15:3
 expand (4)
 15:6; 17:3; 9; 28:12
 expect (1)
 22:8
 expected (2)
 46:16
 expecting (3)
 19:13; 53:20; 54:18
 expense (1)
 36:15
 experience (2)
 36:12; 16
 expiring (3)
 3:13; 41:19; 42:10
 explaining (1)
 35:16
 expressed (1)
 49:16
 extend (1)
 17:21
 extending (1)
 33:6
 extension (2)
 14:12; 14
 extent (1)
 32:24
 extremely (1)
 47:23

- F -

facilities (22)
 11:20; 24; 12:2; 6; 24;
 13:3; 16:8; 9; 12; 15; 17;
 17:10; 12; 28:10; 28:1;
 13; 14; 32:5; 38:9; 14;
 18; 43:6
 facility (15)
 8:11; 11:23; 13:12; 14:9;
 13; 14; 19; 15:9; 16:4; 7;
 21; 23; 17:1; 2; 15
 factors (1)
 39:1
 fairly (4)
 14:6; 32:8; 34:4; 37:6
 Falcon (1)
 27:6
 Fall (5)
 8:25; 52:20; 53:18; 21;
 24
 familiar (1)
 13:2
 fashion (1)

44:18
 FDA (1)
 48:15
 Feasibility (3)
 40:5; 10; 45:11
 feasibility (4)
 8:7; 12; 21; 37:9
 FEATHER (1)
 1:6
 Feather (12)
 3:12; 4:25; 5:22; 6:10;
 10:8; 23:21; 24:7; 9; 18;
 25:8; 28:17; 51:6
 February (1)
 36:18
 FEDERAL (1)
 1:2
 Federal (3)
 2:16; 3:4; 6; 8; 18; 27:3
 federal (1)
 3:7
 feed (1)
 51:16
 feel (1)
 10:3
 feet (1)
 9:9
 felt (1)
 44:16
 FERC (8)
 3:13; 4:15; 7:13; 8:16;
 22:5; 23:6; 36:10; 39:7
 FERC's (1)
 19:19
 field (1)
 55:12
 file (3)
 45:20; 46:3; 6
 filed (3)
 3:16; 6:25; 32:11; 45:1;
 46:1
 Final (1)
 22:11
 final (3)
 11:17; 18; 18:21; 22:10
 47:25; 54:20
 finalize (1)
 55:24
 financial (1)
 37:9
 find (3)
 18:17; 36:3; 55:13
 finding (1)
 47:16
 fire (2)
 28:17; 29:19
 First (2)
 11:12; 42:4
 first (20)
 4:23; 6:9; 7:24; 8:2;
 11:6; 23; 12:25; 13:3;
 14:12; 15:6; 16:14; 20;
 31:1; 45:15; 46:25; 47;
 17; 21; 52:8; 54:17
 Fish (4)
 48:4; 6; 7; 49:18
 fish (18)
 9:24; 10:1; 25:5; 6; 15;
 48:16; 47:8; 10; 15; 19
 25; 49:3; 5; 50:13;
 54:13; 55:2; 4

Fisheries [1]
50:3
fisheries [4]
8:24; 12:9; 20:7, 8
fishery [1]
10:4
fishing [1]
13:9
fife [1]
36:24
five [4]
6:16, 19; 7:9, 10
flag [2]
33:24; 34:10
Flail [3]
6:17; 17:7, 9
flat-line [1]
34:4
flesh [1]
49:10
Flood [1]
37:24
flow [13]
9:4, 6, 18, 20; 24:13, 14,
21; 25:24; 26:6; 34:18,
21; 38:20; 51:13
flows [13]
9:3, 17, 19; 23:20;
25:17, 18; 26:7, 8;
28:17; 34:12, 23; 35:9
fluctuations [1]
9:21
Flycatcher [1]
27:7
focus [2]
38:7, 18
focused [1]
21:16
folks [3]
31:6, 16; 37:4, 12;
41:12; 50:3
follow [2]
18:23; 48:8
fool [2]
15:16; 18:2
Forebay [3]
6:14; 9:6; 15:3, 5; 24:18;
49:5
foregoing [1]
50:23
FOREMAN [1]
24
Foreman [1]
20:9
Forest [23]
11:16; 14:9, 13; 15:12,
21; 25:14; 26:15, 16;
27:11; 28:20; 29:1, 3,
13; 31:5, 7; 33:13;
36:13, 23, 25; 36:6;
38:4, 10; 43:5; 53:3, 4;
58:5
forest [2]
31:7; 41:25
Forests [1]
26:22
forget [1]
21:23
-ORK [1]
1:8
Fork [11]

3:12; 4:25; 5:22, 25;
6:13; 23:20; 24:7, 8, 18;
25:6; 29:17
form [1]
37:18
format [1]
54:19
formation [1]
44:24
forthcoming [3]
40:15, 19; 51:9
forward [1]
58:18
four [3]
6:22; 10:21; 11:1; 14:3;
15:13
Fox [1]
27:8
Framework [1]
33:15
FRANKIE [1]
27
Frankie [3]
19:18, 21, 23; 30:21;
35:15
Frog [1]
27:8
front [2]
11:7; 22:22
fruitful [1]
31:20
full [2]
35:16; 37:10
fundamentals [2]
43:22, 23
funding [1]
18:7
future [2]
27:23; 28:1

- G -

Game [4]
48:5, 7; 49:18
Gansar [1]
9:25
Gas [2]
1:10; 3:14
gate [1]
8:23
gauging [1]
10:8
generation [4]
50:22, 23; 51:12; 52:14
gentleman [1]
51:17
geographic [1]
32:23
gate [3]
11:19; 12:13; 14:15;
22:25; 47:18
give [3]
4:24; 18:4, 16; 27:13;
30:24; 48:13
Given [1]
33:23
given [1]
52:10
givee [3]
22:14; 33:18; 34:1
glad [3]

38:12; 39:16; 49:22
gleaned [1]
30:16
goals [1]
38:17
GOODMAN [1]
37:22
Goodman [2]
37:21, 22
gotter [1]
65:12
governing [1]
43:17
Government [1]
27:3
graphs [1]
54:17
Gross [2]
27:8, 9
graveled [1]
15:16
Great [1]
48:13
great [2]
42:17; 48:7
Greater [1]
27:7
GREEN [37]
2:7, 19:24; 20:6; 27:16,
20; 38:1; 37:15, 19;
39:21, 24; 40:17, 21;
41:2; 45:8, 22, 25; 46:7,
20, 23; 47:3, 11; 48:1,
13, 16, 23; 49:21; 50:2;
51:26; 52:16; 53:1, 7,
13, 22; 54:3, 7; 55:9, 13
Green [1]
19:18
Greene's [1]
27:9
Greenville [1]
30:8
Group [2]
2:2; 19:19
group [3]
13:14, 15; 17:9; 35:19;
45:16, 19; 51:10, 21;
52:6
groups [2]
13:12; 17:10
growing [1]
43:11
grown [1]
42:2
growth [4]
42:13; 43:2, 3, 8
guarantee [1]
45:3
guess [3]
34:25; 50:16; 58:14
guidance [3]
38:18, 21, 29
guys [2]
45:12; 50:13

- H -

habitat [3]
25:5, 17; 26:8
habitats [2]
24:15; 27:2

hadn't [1]
45:5
Hairy [1]
27:8
hall [1]
52:13
Hamilton [2]
32:3, 5
hammering [2]
56:7, 18
handed [1]
5:9
handle [2]
26:25; 50:25
handout [1]
11:7
happens [1]
33:2
hard [1]
10:24
Hardhead [2]
24:20, 21
hasn't [1]
55:13
haven't [1]
55:12
hazards [3]
18:11, 12, 16
he'll [1]
52:10
he's [1]
20:3
Health [1]
48:16
health [1]
48:9
hear [7]
6:13; 21:2, 8; 22:15;
30:18, 22; 41:1
heard [1]
32:2
heavy [1]
48:17
help [2]
9:18; 34:19
helpful [1]
45:22
herds [2]
28:1, 4
hidden [1]
37:20
highlight [1]
12:23
highways [1]
28:8
Hill [1]
27:7
Himalayan [2]
10:19; 35:10
historic [2]
18:5; 30:4
Historic-eligible [1]
19:11
historical [1]
41:11
hit [1]
36:7
home [1]
42:15
homes [5]
6:20; 42:5, 6, 9, 22

honesty [1]
35:2
Hoover [1]
27:9
hope [3]
32:10; 37:7; 38:8
hopeful [1]
35:3
hopefully [3]
18:14; 31:22; 47:18, 24;
55:23
hoping [2]
34:21; 54:21
hour [2]
9:14
human [1]
46:9
human-made [1]
25:7
hundreds [2]
42:21; 52:1
Hunter [1]
37:25
hydro [1]
33:16
HYDROELECTRIC [1]
1:7
hydroelectric [1]
12:19
hydrograph [4]
33:19, 22; 34:6, 13
hydrologists [1]
31:10
hydrology [1]
51:20
hydromanagement [1]
44:7
hydropower [2]
3:8, 11

- I -

Id [2]
7:8; 19:24; 20:22; 31:13
50:2, 4
idea [1]
32:6
ideas [1]
21:9
identified [2]
23:3; 33:9
identity [1]
3:25
I [1]
6:17
Impact [3]
3:22, 24; 4:1; 19:22;
20:2; 21:13; 22:8, 10, 1;
Impact [2]
32:12; 37:3
Impacts [3]
21:6; 28:8, 21
implement [2]
9:11; 39:9
implemented [3]
19:12; 40:14
importance [1]
30:6
important [3]
5:8, 12; 36:16, 18; 37:4,
12; 38:1; 43:15; 44:15

impressed [1]
31:17

improve [7]
10:10; 13:11, 17, 19;
14:10; 15:10; 17:10

improved [3]
15:12, 25; 17:18

improvements [3]
13:4, 18; 14:3, 8, 11, 24;
15:24; 16:8; 16:25

in-basket [1]
55:13

in-stream [2]
9:5; 51:13

include [14]
13:8; 14:3, 24; 15:7, 15,
25; 16:3, 23; 17:5;
22:24; 23:13; 25:18;
27:4; 28:7

included [4]
11:18; 18:20; 23:1;
28:20

includes [5]
12:10; 18:21; 24:12;
28:2; 38:3

income [1]
39:2

incorporated [1]
8:18

increase [4]
9:3; 14:18; 28:13; 44:17

increased [4]
28:15, 16, 17; 50:21

increments [1]
14:17

incumbent [1]
43:10

indicated [1]
37:17

indicates [1]
23:25

indicator [1]
35:25

indirect [1]
32:18

individual [2]
31:1; 47:5

individuals [2]
5:25; 28:9

infinite [1]
41:15

inform [1]
18:14

information [12]
7:8; 18:17; 20:25; 45:18,
23; 48:2, 11; 50:14;
51:3, 23; 52:10, 22

informed [1]
55:16

initial [3]
12:25; 16:10; 54:18

input [2]
11:14; 31:11

insisted [1]
43:15

installing [1]
47:5

instance [2]
34:4; 52:15

intake [3]
8:8, 22; 40:12

integrate [1]
54:20

integration [1]
12:7

interdisciplinary [1]
31:5

interest [1]
28:16

interested [13]
7:16; 24:10, 23; 25:3, 9,
12, 16, 24; 28:9, 12;
34:12, 13; 35:7

interpretation [5]
12:16, 17; 16:8; 17:13;
36:22

introduce [2]
19:18, 25

introduced [1]
25:11

irrevocable [1]
41:12

invested [1]
42:20

involved [1]
40:23

lowa [2]
40:6, 11

islands [1]
18:16

isolated [1]
41:20

issue [12]
3:18; 4:5; 22:2; 28:24;
30:2; 34:11; 35:5, 12;
37:5, 12; 45:18; 51:7

issued [4]
5:8; 8:19; 12:22; 21:18

issues [31]
3:8, 26; 4:3; 5:10, 13;
7:17; 12:18; 20:13, 18,
25; 21:3, 5, 7, 14; 22:13;
23:3, 8, 12; 30:15, 17;
32:17, 20; 33:7, 8, 10;
36:20, 21; 37:24; 39:8;
48:19; 48:22

issuing [2]
22:4, 5

item [1]
8:23

items [3]
9:2, 23; 16:18; 23:24;
24:1

- J -

Jackie [1]
35:15

January [1]
22:9

Jeff [1]
20:6

JEREB [10]
2:11; 5:20; 18:23; 30:21;
40:10, 19, 22; 45:15, 24;
48:2, 12, 22, 25; 47:4;
51:5; 52:1; 53:5, 9

Jerob [3]
4:24; 5:21; 31:18; 41:15;
51:5

job [5]
22:15; 32:8; 35:15;

38:11; 43:13

JOHN [1]
2:17

John [7]
3:3; 5:20; 19:18, 24;
20:1, 20; 23:3

July [3]
22:3, 10; 40:17, 24;
41:2; 48:19, 24; 47:2

Jump [1]
50:6

June [5]
21:22; 22:23; 30:18;
47:1, 18; 58:1

- K -

keep [1]
18:2

key [2]
11:22; 44:8

- L -

lab [2]
47:20; 48:6

Lake [34]
6:13; 8:9; 10:12; 14:15;
16:8; 23:22; 24:6, 8, 11,
24; 25:1; 28:10; 33:6;
34:14, 21; 38:9, 14, 22;
39:10; 41:19; 42:1, 2, 4,
6, 13, 18, 22; 43:9, 24;
44:11, 20, 21, 23

lake [1]
41:20

Land [7]
28:20; 28:9, 10; 33:12,
13, 23; 38:7

land [4]
23:15; 28:23; 29:8;
58:15

lands [3]
15:20; 17:16; 28:10

large [2]
25:4; 38:3

largely [1]
44:29

largest [1]
17:2

Lesson [4]
28:21; 28:2; 31:7; 43:5

Last [2]
17:5; 47:12

last [15]
6:22; 7:1; 9:17; 19:4;
22:1; 28:24; 35:17; 37:1;
38:7, 17; 47:1, 14;
52:12; 54:17; 55:11

lastly [1]
12:16

late [5]
47:13; 53:16, 18, 20, 21

Laughlin [9]
20:5; 27:15, 19; 35:18;
39:23; 41:10; 55:9, 20;
55:16

laughter [1]
55:7

Launch [2]
14:13, 25

launch [8]
14:11, 16, 18, 20, 22,
24; 15:3

launching [2]
14:21; 15:1

law [5]
18:4, 8; 28:19

Layne's [1]
27:9

lead [2]
51:18; 52:20

learned [1]
39:25

Level [3]
38:9, 14, 22

level [8]
14:16; 34:14, 21; 43:24;
44:5; 45:3

levels [7]
23:22; 25:10; 48:3;
50:25; 51:12, 13

libraries [1]
7:4

licenses [38]
3:12, 16, 20; 4:5; 6:2;
8:18, 20; 11:18, 21, 25;
12:4, 22; 18:21; 18:13;
23:5; 30:16; 32:5, 7;
38:18; 40:1; 41:19, 21,
25; 42:10; 43:10, 13, 15,
18; 44:5, 8; 45:18; 50:2,
4; 54:12, 25

licensee [4]
3:14; 28:12; 37:10;
58:11

license [1]
3:10

Likewise [1]
34:8

limit [2]
31:13; 33:5

limited [1]
32:9

limiting [1]
32:16

Lindo [1]
1:11

List [1]
25:16

List [3]
8:1; 28:18; 27:13; 35:20,
22; 52:3

Listed [2]
21:4; 27:3

listening [1]
41:16

lists [1]
6:10

literally [1]
42:21

liter [1]
28:16

little-used [1]
13:14

load [1]
9:17

local [4]
7:4; 18:4; 20:18; 44:20

located [1]
12:20

location [4]
14:10; 15:1; 16:1; 17:19

locations [2]
16:5; 48:22

lock [1]
33:19

Longhorn [1]
27:5

locks [1]
42:24

lot [5]
11:18; 18:15; 32:6;
35:11; 38:7; 51:18

Loud [2]
55:7, 18

Louis [2]
2:2; 19:18

lower [1]
8:10

- M -

magnets [1]
43:7

Malco [1]
30:8

maintained [2]
11:20; 12:2

maintaining [1]
50:22

maintenance [5]
12:2; 22:14; 44:10

MALLOY [1]
2:13

Malloy [1]
6:5

Management [7]
28:21; 29:3; 33:13, 14,
24; 35:25; 38:8

management [7]
11:13; 18:20; 18:6;
29:14, 19; 38:21; 39:10

Management's [1]
29:10

manages [2]
6:2, 4

managing [5]
5:21; 12:5; 20:12; 26:9;
47:9

manipulation [1]
8:24

map [3]
6:10; 13:2; 18:15

maps [1]
5:23

Margaret [2]
4:12, 16

MARK [1]
2:4

Mark [1]
20:9

mark [1]
22:13

marking [1]
18:11

Martin [3]
41:3; 45:7, 8

MATTAX [5]
2:5; 50:8; 52:3; 58:1, 4,
8

Mattox [2]
20:10; 50:7

MATTER [1]

1:5
 matter [1]
 1:16
 May [1]
 1:14
 McGuirk [1]
 51:19
 mean [2]
 33:25; 49:9
 meant [1]
 53:7
 measure [3]
 8:22; 10:16, 17
 measures [3]
 10:13; 11:6; 19:8; 23:10;
 26:13, 20; 30:4, 12
 measuring [1]
 52:20
 meat [3]
 28:1; 36:9, 15
 meeting [13]
 1:17; 3:5; 4:13; 5:5, 18;
 7:16, 18, 20; 21:18;
 22:1, 12; 52:12; 58:20
 meetings [3]
 3:25; 7:20; 12:10
 megawatts [1]
 62:1
 member [2]
 20:3; 41:4
 members [3]
 20:16, 18; 30:8
 memorandum [1]
 18:10
 mention [4]
 11:7; 35:1; 36:13; 37:1
 mentioned [3]
 20:20, 24; 21:1, 15;
 23:3; 40:3; 45:12; 48:13;
 55:1
 mercury [3]
 48:18, 21; 49:9, 12, 13,
 16; 52:20
 messages [1]
 12:20
 metals [2]
 24:8; 46:17
 methodology [3]
 55:2, 5; 58:6
 methyl [3]
 49:9, 12, 16
 Michael [4]
 31:2, 3; 37:16, 17
 microphones [1]
 6:11
 microphones [2]
 4:18, 21
 migrate [1]
 26:4
 MIKE [1]
 2:13
 Mike [4]
 6:5; 23:4; 40:22
 million [3]
 6:24; 14:18; 17:1
 millions [1]
 42:21
 mimic [2]
 39:22; 34:13
 mind [2]
 24:20; 39:13

minimize [3]
 25:8, 21; 48:9
 minimum [1]
 28:7
 mining [1]
 29:17
 minutes [2]
 7:9, 10
 missed [4]
 5:12; 22:13, 16; 24:2
 missing [2]
 36:20; 36:3
 mitigation [2]
 26:13; 30:11
 model [6]
 40:12; 50:10, 15; 51:22;
 52:1, 8
 modeler [2]
 51:20
 modeling [7]
 40:11; 49:25; 50:1; 51:6,
 8; 52:2
 models [2]
 51:15; 52:11
 monitoring [3]
 12:3; 16:16; 38:15, 22;
 47:7
 month [1]
 40:16
 monthly [1]
 7:17
 months [5]
 41:17; 44:6; 54:22, 23,
 24
 morning [2]
 31:3; 35:17
 mostly [1]
 37:23
 Mountain [1]
 42:14
 mountain [1]
 41:20
 movement [1]
 25:8
 moves [1]
 19:4
 Moving [3]
 24:4; 25:23; 28:23
 moving [1]
 27:16
 MTBEs [1]
 24:12
 MUDRE [16]
 2:17; 3:3; 18:17; 37:16,
 20; 38:12, 16, 20; 45:7;
 49:8, 15, 20; 53:23;
 54:8; 56:14, 17
 Mudra [2]
 3:3; 20:1
 Murphy [1]
 20:6

- N -

name [7]
 3:3; 5:21; 15:8; 22:24;
 31:3; 41:3; 51:17
 names [1]
 13:2
 National [3]
 11:15; 19:10; 28:20, 22;

29:3, 13; 31:5; 43:5
 Native [1]
 20:18
 native [2]
 25:11; 35:11
 Natural [1]
 37:22
 natural [3]
 25:7; 33:18, 22; 34:5, 9,
 13; 35:8; 55:2
 necessitating [1]
 53:11
 needs [7]
 28:2, 3; 34:2, 6, 17;
 43:11, 12
 negotiate [1]
 18:9
 negotiating [1]
 43:19
 negotiations [1]
 43:18
 nesting [1]
 10:14
 nests [1]
 10:12
 Nevada [3]
 27:6; 29:1; 33:15
 nice [1]
 27:17
 nicely [1]
 31:23
 night [4]
 22:1; 35:17; 37:2; 38:7
 NOAA [1]
 50:3
 nobody [1]
 39:21
 notes [1]
 22:8
 non-federal [2]
 3:7, 10
 non-game [1]
 10:1
 NORTH [1]
 1:6
 North [13]
 3:12; 4:25; 5:22, 25;
 6:13; 13:18; 14:18;
 23:20; 24:7, 9, 18; 25:8;
 29:17
 Northern [1]
 13:20
 northern [3]
 14:22; 17:6, 14
 Notice [1]
 22:5
 notice [1]
 1:17
 November [1]
 47:14
 nodous [1]
 26:9
 Number [1]
 22:25
 number [5]
 7:15; 10:11; 15:17;
 28:13; 38:8
 Numbers [1]
 1:5
 numbers [1]
 47:19

- O -

Oak [1]
 6:17
 objectives [2]
 28:11; 38:17
 obtain [2]
 4:14; 5:5
 Obviously [1]
 33:21
 obviously [3]
 36:5; 37:2; 50:24
 occur [1]
 12:14
 October [5]
 7:1; 23:6; 47:14; 48:19,
 24
 odor [1]
 8:24
 odors [1]
 24:9
 offer [1]
 32:1
 Office [1]
 49:18
 office [1]
 5:14
 Officer [1]
 31:4
 official [1]
 4:9
 Oh [2]
 37:20; 45:10
 Okay [12]
 5:20; 40:17, 21; 47:3;
 48:23; 49:20, 21; 52:18;
 53:22; 54:24; 58:4, 14
 old [2]
 10:8; 15:8
 one-by-one [1]
 35:21
 ones [1]
 43:24
 ongoing [3]
 18:12; 44:14; 47:5
 online [1]
 12:6
 open [3]
 7:13, 20; 29:7
 opened [1]
 42:7
 operate [1]
 6:15
 operates [1]
 6:6
 operating [1]
 6:5
 operation [3]
 3:10; 23:19; 51:12
 operations [10]
 12:1; 23:9, 22; 25:4, 22;
 26:3, 13; 29:24; 30:3;
 51:20
 opportunities [4]
 17:18; 28:8; 36:7; 39:21
 opportunity [5]
 22:14, 17; 28:19; 36:13,
 25; 45:5
 oral [2]
 24:3; 39:13
 Oruff [2]

27:8, 9
 order [4]
 35:20, 23; 43:26; 44:2
 ordinance [3]
 18:1, 4, 6
 originally [1]
 10:1
 Orville [1]
 33:6
 Ours [1]
 33:14
 outlined [1]
 41:9
 overall [1]
 24:16
 Overlook [1]
 17:11
 overlooked [1]
 48:11
 overseeing [1]
 3:7
 overseas [1]
 3:10

- P -

P-2105-089 [1]
 1:8
 Pacific [2]
 1:10; 3:14
 page [7]
 7:24, 25; 10:16; 18:23,
 24; 19:4; 37:7
 pages [1]
 11:10
 painting [1]
 18:1
 pamphlets [1]
 18:14
 parallel [1]
 18:19
 parameters [1]
 34:20
 Pardon [1]
 46:22
 Park [2]
 11:15; 43:6
 parking [1]
 15:16
 Paris [1]
 15:22
 part [10]
 3:20, 23; 5:5, 25; 20:4;
 45:16, 17, 20; 46:5; 49:
 PARTICIPANT [2]
 40:24; 41:1
 parties [2]
 7:16; 8:15
 patience [1]
 41:16
 patrols [1]
 18:8
 pattern [1]
 34:9
 pay [1]
 41:21
 PCBs [3]
 46:9, 17; 48:21
 peculiar [1]
 44:23
 penslock [2]

8:5; 28:13
 people [8]
 18:2, 5, 17; 30:1, 22;
 41:16; 42:20; 44:21
 people's [1]
 54:4
 percent [1]
 49:12
 Peregrina [1]
 27:6
 period [3]
 16:10, 13, 18
 permitting [2]
 16:11; 18:22
 person [1]
 53:4
 personality [1]
 51:1
 perspective [3]
 10:11; 37:10; 41:6
 pet [1]
 44:19
 PG [32]
 2:10; 5:21, 25; 11:24;
 14:13; 15:9, 11, 19;
 16:10; 17:17, 25; 18:8,
 9; 21:10; 31:17, 18;
 34:20, 24; 35:1; 36:3;
 38:4, 10, 12, 17; 39:2, 6,
 25; 41:7; 42:24; 43:12;
 45:10; 54:11
 phase [4]
 16:7; 16:14, 24; 17:8
 phases [1]
 18:24
 phasing [1]
 11:9
 pick [1]
 49:3
 Picnic [1]
 13:13
 picnic [4]
 13:8, 13, 14; 16:8
 picnicking [1]
 17:12
 picture [1]
 41:13
 piece [1]
 36:2
 piers [1]
 13:9
 pile [2]
 19:2; 49:6
 piece [2]
 33:13; 36:6
 Plan [4]
 29:2, 6; 33:14, 24
 plan [19]
 10:14; 11:13, 22; 12:12,
 13, 14, 15, 21; 18:20;
 19:7; 38:15, 18, 21
 Planning [1]
 31:4
 planning [4]
 10:9; 42:11; 47:17;
 53:16
 Plans [4]
 28:21; 29:3; 33:13; 36:8
 plans [7]
 12:11; 17:3, 8, 20;
 18:13; 35:23; 38:23

plantings [1]
 19:2
 plants [2]
 28:14, 18
 platforms [1]
 13:9
 Please [1]
 22:24
 please [2]
 24:2; 30:18
 plots [1]
 10:20
 Plumbe [16]
 28:21; 29:2, 5, 13; 31:5,
 6; 37:13, 23; 38:3, 8, 20;
 39:3; 43:5, 16, 20
 plus [1]
 50:16
 Point [2]
 14:4; 15:8
 point [8]
 6:10; 11:22; 13:1; 24:2;
 30:22; 34:24; 38:5; 42:9
 points [3]
 15:13, 25; 18:4
 pollution [1]
 44:13
 pond [1]
 8:4
 Ponderosa [2]
 17:6, 9
 population [2]
 10:18; 54:13
 portions [1]
 11:3
 possibility [1]
 8:9
 potential [8]
 24:4; 25:17, 21; 28:4,
 16, 17; 33:2; 44:13; 55:2
 power [1]
 36:24
 Powerhouse [3]
 6:18, 17, 18; 8:18, 19;
 15:24
 powerhouse [1]
 17:21
 Powerhouses [1]
 8:17
 powerhouses [3]
 6:16, 19; 25:13
 powers [1]
 58:19
 Prativille [3]
 6:8, 22; 14:8; 24:5;
 40:12
 predictable [3]
 44:2, 7; 45:3
 prehistoric [1]
 30:4
 prepare [2]
 8:16; 20:1
 prepared [1]
 6:25
 preparing [4]
 3:22, 23; 19:20, 21
 presentation [1]
 38:7
 presented [1]
 38:17
 presidents [1]

41:8
 pressure [2]
 42:18; 43:8
 pressure-filled [1]
 43:1
 presume [1]
 50:16
 pretty [3]
 11:9; 36:4; 58:14
 prevent [1]
 10:1
 previous [1]
 48:8
 primarily [2]
 8:18; 9:15
 primary [2]
 20:16; 30:7
 primitive [1]
 17:18
 priority [1]
 38:8
 private [1]
 17:16
 problem [8]
 8:24; 42:19; 43:14; 44:7;
 53:9
 problems [8]
 28:16; 41:14; 44:5, 12;
 13; 46:1
 proceed [1]
 8:2
 proceeding [2]
 4:10; 8:19
 process [10]
 3:20, 23; 5:4; 10:11;
 31:20; 34:18, 22; 38:2;
 46:5; 55:25
 processed [1]
 45:18
 processing [2]
 47:23; 48:7
 produce [1]
 6:19
 produced [2]
 4:11; 55:17
 professionalism [2]
 31:18; 38:12
 professionals [1]
 38:6
 program [8]
 12:1, 3, 12, 17; 44:14;
 47:12
 programs [1]
 11:23
 progresses [1]
 58:19
 PROJECT [1]
 1:7
 Project [12]
 3:13; 4:25; 5:22; 6:13,
 22; 7:18; 8:4, 17; 13:11;
 22:25; 33:4; 46:2
 project [52]
 3:14, 16, 20; 4:8; 6:8;
 12:18; 20:2, 10, 12;
 21:1; 22:25; 23:9, 19,
 21; 24:23; 25:3, 5, 13,
 18, 21, 22; 26:1, 2, 4,
 10, 11, 13; 27:1, 2, 22,
 24; 28:14; 28:7, 13, 20,
 21, 23; 30:3, 12, 14;

31:7; 33:2, 12, 16;
 35:25; 36:23; 37:3, 8;
 45:21; 48:3, 21; 54:14
 projects [1]
 29:24
 project-related [1]
 24:11
 projected [4]
 42:14; 43:2, 3, 8
 projects [3]
 3:8, 11; 29:21; 39:1, 3
 promise [1]
 35:21
 proper [2]
 4:4; 23:1
 property [1]
 17:17
 proposal [7]
 7:24; 9:8; 14:16; 19:15;
 21:10; 34:23; 35:1
 proposals [7]
 7:7, 8, 10, 12, 14, 23;
 30:13
 proposed [20]
 9:22; 10:4, 13; 12:24;
 14:12, 19; 16:22, 24;
 17:2; 23:10; 27:21; 28:5,
 18, 25; 29:4, 12, 20;
 30:3, 11
 proposing [17]
 5:1; 7:12; 9:3, 6, 11;
 14:14; 15:11, 19, 23;
 16:3, 6; 17:17; 18:7, 8,
 25; 19:6, 10
 protect [3]
 16:10, 18; 24:14
 protection [4]
 12:18; 19:8, 10; 44:10
 provide [20]
 11:1; 14:21; 15:4, 12,
 16; 17:4, 10, 11; 18:7,
 13; 22:14, 19; 31:11;
 35:22; 36:14; 37:18;
 38:13; 41:8; 44:17;
 53:24
 provided [7]
 11:7; 22:21; 34:24;
 47:20, 21; 48:11; 52:3
 provides [1]
 11:8
 providing [5]
 12:17; 15:1, 15, 25;
 36:8; 48:6
 provisions [1]
 18:21
 PBAE [1]
 14:7
 Public [1]
 37:25
 public [20]
 5:5; 7:21; 10:21; 11:1;
 12:19; 14:20; 20:3; 22:9,
 12; 28:17; 37:1, 3, 11;
 41:22; 43:7, 11; 44:17;
 45:4
 pulses [1]
 34:8
 purposes [2]
 8:11; 20:22
 pursuant [1]
 1:17

putting [2]
 42:17; 45:13
 - Q -
 quality [19]
 8:7; 20:11; 24:11; 32:8;
 36:12, 16; 38:15, 22;
 44:2, 11, 14; 45:3;
 48:13, 18; 47:5, 7,
 51:18, 19
 quantity [1]
 36:8
 question [4]
 39:17; 45:25; 46:8;
 52:19
 question-and-answer [1]
 30:23
 questions [11]
 6:7; 30:24; 32:17, 21,
 24; 40:1; 45:10; 54:8,
 10, 11; 58:10
 quick [1]
 8:12

- R -
 Ragwort [1]
 27:10
 Rainbow [1]
 25:7
 ramp [3]
 9:13, 14; 14:16
 ramping [2]
 9:11, 15
 Ranch [2]
 13:22; 47:22
 Rancherías [1]
 30:9
 Rancho [1]
 47:20
 range [4]
 28:3; 35:16; 37:10
 rarely [1]
 14:15
 rate [3]
 9:11, 13; 45:1
 Reach [5]
 9:1; 10:2, 20; 52:7, 8
 Reaches [1]
 8:10
 reachee [1]
 24:16
 read [1]
 46:8
 real [4]
 5:8; 31:17, 20; 40:12
 reason [3]
 10:10; 32:18; 41:4
 reasonable [2]
 35:6; 40:25
 reasons [1]
 9:15
 receive [1]
 21:21
 received [2]
 22:1; 47:22
 recent [1]
 42:14
 recently [1]
 42:7
 recognize [2]

34:16; 42:10	release [4]	30:1, 5; 34:25; 35:14;	runs [1]	15; 47:17
recommended [2]	8:7, 10; 28:6	36:4; 37:4, 5	52:13	Secretary [1]
23:10; 24:22	release [9]	respect [2]	RV [1]	22:20
reconsider [1]	24:5, 14, 22; 25:24;	33:7; 38:11	16:22	section [1]
39:3	50:22	respond [1]	- S -	27:18
record [8]	relevant [1]	53:4		Sediment [1]
4:9; 23:1; 45:14, 23;	28:7	response [3]	sad [1]	23:20
48:3, 14; 51:3, 4	reallocating [5]	39:15, 18; 56:12	44:20	sand [1]
recorded [2]	5:21; 6:1; 8:16; 33:17;	responsibility [1]	safety [9]	48:6
4:8, 22	46:5	43:18	28:17; 29:8; 36:21;	Seneca [2]
recorder [1]	religious [1]	rest [2]	38:16, 21	8:1; 52:7
4:20	30:6	18:6; 19:25	salmonid [1]	sense [1]
Recreation [1]	remaining [1]	restore [2]	25:10	32:19
16:22	47:18	33:21; 35:8	samples [2]	sensitive [2]
recreation [29]	remove [2]	restrict [1]	47:21; 52:19	18:3; 44:12
6:2; 11:3, 13, 22; 12:8;	10:5, 9	18:1	sampling [18]	separate [1]
17:25; 18:18; 20:8;	removing [2]	result [1]	46:8, 13, 14, 15, 24, 25;	14:21
23:15; 24:11; 25:17;	10:3; 18:11	44:23	47:4, 5; 48:18; 51:18;	series [3]
27:16, 22; 28:3, 13, 19;	renovation [1]	results [15]	53:5, 10, 11, 15, 19;	33:1; 48:18; 52:7
31:10; 36:4, 11, 14, 18;	18:7	7:6; 40:15; 45:11, 15;	54:13; 55:1	serve [1]
38:16; 42:2, 11, 17, 22;	repairing [1]	47:22, 24; 48:2, 10, 25;	Sand [1]	34:23
43:4	35:8	48:7; 52:22; 53:15, 20;	27:7	Services [17]
recreational [17]	replaced [1]	54:14; 55:5	satisfy [1]	11:15; 14:9, 13; 16:12;
27:23; 28:1, 8, 16; 36:5;	41:21	review [5]	34:17	21; 28:16, 18; 36:13, 21;
36:13; 42:13, 18, 23;	report [8]	5:11, 14; 22:9; 50:21;	savings [1]	25; 30:8; 38:4, 10; 55:3;
43:6, 9, 11, 25; 44:3, 8,	46:4; 54:20; 55:10, 16,	55:23	48:14	4; 58:5
19	21	review [3]	scattered [2]	Service-sensitive [3]
Red [1]	Reporter [2]	6:14; 21:20; 22:1	4:18; 13:10	25:14; 28:15; 27:11
27:8	4:7, 12	rewarding [1]	scenarios [5]	session [1]
red [2]	representatives [1]	31:20	50:20; 51:8, 11, 22;	30:24
33:24; 34:10	38:11	Right [3]	52:1, 4, 7, 16	settlement [3]
Red-Legged [1]	request [1]	53:1, 13, 18	Scenic [1]	31:22; 34:22; 45:17
27:6	53:12	right [5]	17:11	seven [1]
reduce [1]	requested [1]	18:3; 20:3; 27:17; 45:24;	scenario [1]	23:12
48:9	51:11	48:20	29:8	shallow [1]
reducing [1]	required [1]	Rio [1]	schedule [3]	18:16
35:2	35:24	1:11	5:4; 21:17; 32:8	shipped [1]
references [1]	requirement [1]	riparian [2]	40:7; 48:19, 24	55:13
11:11	46:9	28:7; 35:11	schedules [3]	Shore [3]
refers [1]	requirements [2]	RIVER [1]	34:19; 38:21; 54:4	13:13; 14:18; 16:21
58:6	33:11; 44:19	1:8	scheduling [1]	shoreline [11]
reflect [1]	Reservoir [3]	River [16]	32:2	13:17, 20; 14:22; 15:11;
47:14	8:14; 14:25; 15:2, 23;	3:12; 4:25; 5:22; 8:10;	scientist [1]	14; 17:23; 18:20, 22;
regard [2]	16:2; 17:7, 20; 24:24;	10:8; 23:21; 24:7, 9, 18;	51:18	38:21; 44:24
31:25; 44:7	48:2	25:8; 28:18; 34:12, 15;	scope [3]	short-sleeved [1]
regarded [1]	reservoir [4]	35:5; 48:5; 51:6	31:13, 26; 32:16	39:9
43:23	28:8, 29; 39:1; 51:12	river [5]	Scoping [2]	show-stoppers [1]
regarding [1]	reservoirs [3]	8:3, 4, 17, 25; 10:22;	5:8; 11:10	34:1
18:2	8:12, 18; 25:22	11:2	scoping [20]	showing [1]
regularly [2]	residential [1]	8:5; 10:22; 11:2; 15:18;	1:18; 3:5, 24; 5:4; 20:21,	18:15
7:17, 20	29:21	17:18; 19:3	22; 21:2, 4, 18, 20; 22:2;	Sierra [5]
regulations [1]	residents [4]	roads [1]	19, 21; 23:13; 27:12;	27:8; 28:1; 33:15
38:10	11:14; 13:20; 38:5; 39:2	15:18	38:25; 39:4; 56:20	signed [1]
REGULATORY [1]	resolve [1]	Rock [3]	SCOTT [1]	31:1
1:2	7:17	8:17; 39:4; 45:16, 17;	2:8	significant [3]
Regulatory [5]	resort [1]	46:1, 2	Scott [7]	10:18; 21:3, 15
2:18; 3:4, 6, 8, 18	42:14	Rocky [2]	20:8; 51:17; 52:10, 12;	signs [2]
rehabilitating [1]	Resource [3]	14:3; 15:7	53:3; 54:10; 58:9	12:20; 18:14
16:17	28:21; 29:3, 10; 33:12,	run [4]	screen [1]	silver [1]
relate [1]	14, 29	27:17; 50:20; 52:11, 13	22:22	52:20
17:24	resource [12]	RUNNING [23]	SD-1 [1]	simultaneously [1]
related [8]	7:16; 11:13; 12:9, 18;	2:12; 47:12; 48:4, 15,	5:15	51:21
8:6, 14, 18; 13:5; 20:25;	18:25; 19:6, 8; 21:14;	20; 48:1, 11, 17; 50:1;	SD-2 [1]	Site [1]
34:25; 35:20, 21	23:12; 26:22; 30:15;	52:5, 23; 53:2, 14, 25;	5:15	13:21
relates [1]	38:5	54:4, 16; 55:3, 8, 10, 18,	season [1]	site [5]
48:14	Resources [2]	21; 56:3, 5	44:3	13:4, 14, 15, 23; 14:3, 4
relating [5]	37:23; 49:22	Running [4]	second [10]	8, 7, 17:16
8:13; 8:25; 9:23; 19:5;	resources [22]	6:3; 47:8; 54:16; 55:10	8:10; 12:1; 17:8; 22:2;	Sites [1]
51:8	6:24; 12:5, 8; 15:10, 18;	running [1]	37:20; 44:10; 46:7, 8,	19:11
relativity [1]	19:6; 20:14, 17; 23:2,	52:8		sites [15]
44:5	14, 16, 17; 25:23; 29:23;			10:21; 11:1; 13:9, 16,

18, 25; 14:1, 3; 15:7;
17:5, 9; 19:8, 12; 30:5
alts [1]
36:25
situation [1]
43:7
six [1]
11:23
size [1]
7:3
skid [1]
42:14
Slender [1]
27:8
slope [1]
8:5
slow [2]
9:15; 47:23
small-mouthed [1]
49:3
smaller [1]
10:7
socioeconomic [1]
38:24
solve [2]
41:14; 43:24; 44:5
somehow [1]
43:10
sometimes-competing
[1]
34:17
somewhat [1]
36:10
sooner [1]
4:18
sorry [2]
50:4, 7; 53:7
sort [2]
28:23; 28:24; 36:8
sounds [1]
53:15
source [1]
39:2
southern [1]
14:2
southwest [2]
13:11, 13
space [1]
29:7
opens [1]
35:14
spanning [2]
10:4, 10
speak [2]
4:20; 31:1; 51:11
speaker [1]
37:21
special [2]
28:14, 15; 28:3
specialist [4]
20:8, 11, 15, 17
specialists [1]
31:10
Species [2]
28:16, 17; 35:25
species [22]
23:15; 24:15, 19; 25:10,
14, 15, 17; 28:15, 18,
20, 23, 24; 27:1, 12, 18;
35:16, 18; 47:15, 16, 18;
48:2

specific [2]
32:17; 33:7, 16
specifically [1]
31:12
spectrum [2]
28:19; 38:14
spend [2]
7:9
spent [1]
8:24
spill [2]
9:12, 13, 16
spoil [2]
8:4; 19:2; 29:14
spoke [1]
20:21
Spring [4]
40:7; 52:21; 53:24
Springs [1]
17:22
Spunge [1]
27:9
stabilization [1]
8:5
stabilize [2]
9:19, 21
Staff [1]
31:4
staff [2]
3:21; 20:16; 31:18; 38:1;
47:8
stairway [1]
36:24
stakeholders [1]
36:4
standards [1]
49:15
start [4]
6:8; 21:17; 33:18; 35:6
started [2]
28:24; 47:13
starting [2]
12:24; 23:17
State [2]
27:3; 48:22
stated [1]
54:12
Statement [2]
3:22, 24; 4:2; 18:22;
20:2; 21:13; 22:9, 10, 12
statement [1]
37:6
States [1]
3:8
static [2]
12:18; 28:23; 35:9
status [2]
28:14; 40:3
stay [1]
6:11
staying [1]
38:13
step [2]
34:1; 41:18
stewardship [1]
37:24
stop [1]
16:8
stopping [1]
39:3
storage [1]

52:14
Stover [1]
13:22
streams [1]
25:25
strictly [1]
37:9
struck [2]
8:14; 32:15
structure [2]
8:8; 10:5
structures [1]
40:13
Stu [2]
8:3, 10; 47:8, 9; 48:17;
49:8; 54:16; 55:10
STUART [1]
2:12
studies [2]
8:2, 4; 40:2
Study [2]
40:5, 10; 45:11
study [2]
7:8; 8:13; 40:11
studying [2]
6:23; 8:7, 12
stuff [1]
46:3
Stumpy [1]
13:25
style [1]
54:19
subcommittee [1]
52:8
subissues [1]
38:17
submit [1]
30:18
submitted [2]
22:23; 23:8
subsample [1]
48:6
substitute [1]
48:13
successfully [1]
49:4
suckers [1]
48:4
suggest [1]
35:4
sulfed [1]
39:18
Summer [2]
52:21; 53:18, 21
summer [2]
9:8; 26:3; 44:3, 8; 53:17,
20
summertime [1]
54:5
Super [1]
13:21
superintendent [1]
8:6
Supervisor [1]
36:3
Supervisors [1]
43:17
supplements [1]
53:5
supply [1]
23:20

support [2]
3:21; 19:19; 20:16
supporting [1]
17:25
supposed [2]
48:10; 55:11
surface [2]
23:22; 50:24
surveys [1]
62:26
Suserville [1]
30:9
Swim [1]
14:7
swimming [2]
13:10; 14:10
switches [1]
9:8
sync [2]
34:5, 9
syncopated [1]
55:8
system [2]
6:6; 8:10; 24:16
systems [2]
35:9; 47:7

- T -

table [1]
38:13
tables [2]
4:18; 54:17
takes [1]
52:13
talk [2]
5:3; 11:12; 20:23
talked [1]
49:18
talking [1]
5:24
take [1]
35:6
Team [1]
58:10
team [10]
5:25; 18:21, 25; 20:4,
12, 16, 20; 31:8, 16;
58:10
teams [1]
51:22
temperature [2]
8:7, 21; 25:1; 49:24;
50:1; 52:11
temperatures [2]
23:23; 24:6, 25; 34:14;
51:6, 14
ten [4]
12:14, 25; 18:13, 14
ten-foot [1]
14:17
ten-year [1]
16:10
tent [1]
16:23
term [2]
11:20, 25; 12:4
terms [2]
32:14; 33:8; 48:16
terrestrial [2]
20:13; 23:14; 25:23;

26:23; 31:9; 35:14
territorial [1]
10:14
test [2]
10:20
testimony [4]
21:25; 24:3; 30:18;
38:14
Thank [14]
19:17, 24; 30:21; 37:15,
18; 38:12; 45:7, 8; 48:7;
47:11; 54:7, 9; 68:9, 13
thank [2]
5:20; 36:1; 38:12; 45:5;
62:18; 64:24; 56:4, 17
Thanks [2]
11:8; 18:22
theory [1]
53:23
There's [4]
9:24; 10:7; 42:6; 43:3
there's [2]
24:25; 32:6, 18; 35:1;
38:28; 37:2, 20; 42:12;
43:8
They're [1]
51:22
they're [4]
6:1; 6:7; 10:26; 34:1
third [2]
12:3; 44:16
third-year [1]
54:13
THOMAS [1]
2:11
threatened [2]
22:14; 26:22; 27:4
three [10]
4:17; 5:24; 6:12, 15, 22;
16:24; 18:5; 45:1; 51:15
54:20
throw [1]
34:9
til [2]
46:4; 53:18, 21
timeframe [1]
53:3
times [2]
9:12, 16
timing [1]
58:14
tip [1]
17:8
tissue [4]
48:16, 17; 47:8, 10
toilet [1]
16:9
Toilets [1]
13:8
Tom [11]
4:24; 5:18, 21; 11:6;
19:17; 23:3; 31:18;
37:25; 41:15; 48:11;
51:5
Tom's [1]
13:1
tomorrow [2]
7:18; 56:14
topics [1]
36:8
topographic [1]

18:15
total [3]
41:24; 42:18, 21; 49:9,
11, 12
totally [1]
22:13
touch [1]
20:22
touched [1]
23:13
trace [1]
24:8
trail [3]
15:20; 17:21
trails [2]
15:21; 16:1
transcripts [3]
4:11, 14; 5:14
transport [1]
23:20
tremendous [3]
36:25; 37:2; 51:7
tributary [1]
25:10
triggered [1]
16:15
Trout [1]
26:7
trout [3]
10:4, 10; 25:1
Tu [4]
51:17; 52:10; 53:9
Tutoria [1]
27:9
turbine [1]
26:12
two-thirds [1]
47:15

- U -

understand [3]
40:8; 52:18; 53:8
understanding [3]
18:10; 51:4; 53:19
underwater [1]
18:14
underway [2]
40:2; 48:9
unduly [1]
33:5
unfortunately [1]
38:7
unique [1]
41:8
United [1]
3:8
University [2]
40:6, 11
updated [1]
5:15
updating [2]
12:12, 14
UPPER [1]
1:8
Upper [3]
3:12; 4:24; 5:22, 25;
6:13; 23:20; 24:7, 9
upper [2]
32:25; 33:1
usage [1]

28:15
uses [2]
35:5; 43:9

- V -

Valley [13]
6:14, 16; 14:25; 15:2,
23; 18:2; 17:7, 20;
24:17, 24; 27:5; 49:2;
50:14
variety [3]
23:18; 24:15; 26:13;
26:10, 14, 18, 24; 27:1;
28:15
vegetation [3]
26:7; 35:8, 12
vegetative [1]
19:1
vehicular [1]
18:1
vein [1]
31:22
version [1]
55:17
viable [2]
43:25; 44:2
vice [1]
41:8
view [1]
7:5
virginal [1]
41:25
Virtuality [1]
13:4
virtually [1]
32:20
virtue [1]
43:2
vis [2]
32:2, 3
visitor [1]
38:15
voice [1]
4:19
volumes [2]
23:5

- W -

Waiting [1]
48:18
waiting [4]
48:14, 16; 48:7
walk-in [1]
18:3
wall [1]
5:24
wanted [3]
11:8, 12; 12:23; 32:1;
37:18, 19; 48:8, 14;
50:25
wants [1]
39:19
Watch [1]
28:18
Water [8]
22:13; 40:5, 10; 45:11;
49:22; 53:12
water [3]
6:15; 8:6, 9, 25; 18:12,
18; 20:10; 23:17, 22, 23;

24:6, 11, 25; 34:11;
38:15, 22; 42:23; 44:3,
5, 11, 14; 45:3; 48:13,
18; 47:5, 7; 50:24; 51:6,
14, 17, 18; 52:9, 18
waters [1]
27:22
watershed [2]
21:3; 32:25
ways [1]
39:9
we'd [6]
21:11, 18, 17; 22:15;
30:17; 33:5
We'll [2]
20:1; 30:12
we'll [5]
22:1; 30:24; 34:22; 35:3;
47:24
We're [19]
7:16, 20; 9:11; 18:6, 10;
24:10, 13; 25:3, 8, 12,
20; 26:9, 12; 27:20, 25;
28:4; 34:13; 52:5, 14
we're [55]
3:4, 11; 4:3, 23; 5:3;
7:13; 8:12, 19; 9:3, 6;
10:8, 15, 18, 22, 25;
15:23; 16:3, 6; 17:17;
18:25; 18:13; 20:24;
23:18; 24:4; 25:16, 23;
26:2; 29:9, 25; 30:7, 10,
21; 31:21; 32:13; 33:20;
34:12, 21; 35:7, 24;
37:8, 8; 38:11, 14;
46:12, 16; 47:14, 17;
48:21; 49:7, 13; 50:8;
51:10, 16; 52:2; 58:11
We've [3]
6:25; 31:3; 51:5
we've [7]
6:23; 10:12; 22:16; 24:1;
31:18; 32:5; 51:7
wehelle [1]
4:15
Wednesday [1]
1:14
weeds [1]
26:9
week [3]
46:18, 24; 47:1, 18;
54:17; 55:11, 22
weeks [3]
4:16; 47:2, 25; 48:10;
55:18, 23
weir [2]
10:7, 8
welcome [1]
7:21
weren't [1]
47:16
West [2]
13:22; 42:6
western [2]
14:2; 16:2
Westwood [1]
13:25
wetlands [2]
25:25; 26:7
what's [3]
11:9; 23:18; 32:9

Whereupon [1]
56:20
whim [1]
48:4
whirling [1]
25:21
whitewater [1]
25:18
whoever [1]
39:17
wildlife [3]
10:11, 18; 29:7
wildlife-recreation [1]
10:16
willingness [2]
31:19; 38:13
Willow [1]
27:6
winter [2]
2:9; 26:3
wishes [1]
7:5
withdrawn [1]
8:25
Wolverine [1]
27:7
won't [2]
35:21; 37:1
wondering [1]
26:2
woodpecker [1]
58:15
woody [1]
25:4
word [1]
41:24
worded [1]
39:10
work [3]
5:16; 15:11; 19:3; 20:18;
31:19; 37:23
worked [3]
47:12; 48:11, 17
working [19]
20:1, 7, 9, 16, 17; 30:1;
31:5, 11, 16, 21; 32:13;
34:17; 40:20; 41:7;
45:16; 49:23; 51:21;
62:5; 68:18
Works [1]
37:25
works [1]
37:3
wouldn't [2]
53:18, 20
writeup [1]
54:18
written [4]
21:22; 24:3; 30:16; 54:1

- Y -

Yeah [2]
40:19; 47:12
year [3]
7:1; 8:15; 13:7; 34:5, 8;
38:17; 48:4; 47:13, 14
year-round [2]
9:5, 9
years [10]
3:13; 6:22; 10:9; 12:14,

25; 18:15; 35:10; 41:8;
42:5; 54:20
yesterday [3]
47:8; 48:13; 52:24
you'd [1]
7:25
you'll [3]
32:10, 11; 48:1
you've [3]
21:8; 32:1, 17

- Z -

zones [1]
29:6