

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

COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF ENERGY AND ENVIRONMENTAL AFFAIRS

MASSACHUSETTS OCEAN MANAGEMENT PLAN HEARING

WEDNESDAY, SEPTEMBER 16, 2009

@

TILDEN ARTS CENTER MAIN THEATER
CAPE COD COMMUNITY COLLEGE
2240 IYANNOUGH ROAD,
WEST BARNSTABLE, MASSACHUSETTS
7:00 P.M.

FOR THE PROPOSED
DRAFT COMPREHENSIVE OCEAN MANAGEMENT PLAN

Deerin Babb-Brott - Assistant Secretary for Oceans and
Coastal Zone Management
John Weber - Ocean Resource Manager,
Coastal Zone Management

	I N D E X	
	Speaker	Page(s)
1		
2		
3	Deerin Babb-Brott	4
4	John Weber	6
5	Senator O'Leary	17
6	Jack Clark	18
7	Heather Walsh	20
8	Sharon Rooney	26
9	Glenn Wattley	29
10	Robert Butcher	32
11	Michael Spillane	35
12	Gregg Egan	36
13	Neil Good	39
14	Luke Olivieri	41
15	David Dow	43
16	Ned Hitchcock	48
17	Gregg Gifford	51
18	Audra Parker	54
19	William Burke	58
20	Peter Kenny	59
21	Glenn Motley	65
22	David Moriarty	69
23	Barbara Durkin	71
24	Maggi Geist	77

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

I N D E X (cont.)

Speaker	Page(s)
Martha Powers	82
Edward Barron	87
Wendy Norcross	88
Bruce McPherson	90

P R O C E E D I N G S

(Convened at 7:08 p.m.)

MR. BABB-BROTT: Well, good evening folks.
Let's pick things up a bit. Let's try that.

Good evening and welcome to the Public Hearing
on the Draft Ocean Plan. We have been preparing for
the State's Ocean Act of 2008.

Louder? Thank you.

Okay. Welcome. Thank you for coming out this
evening. As we begin the public hearing, joining me
this evening for tonight's public hearing is John
Weber who works for Coastal Zone Management and the
Executive Office of Energy and Environmental Affairs.
He's the Marine Spatial Planner in charge of
quarterbacking the Oceans Plan.

Jack Clark, who is the Governor's Environmental
Appointee to the Ocean Advisory Commission.

Steve McKenna who is the Coastal Zone
Management, Cape & Islands Regional Coordinator.

My name is Deerin Babb-Brott, Assistant
Secretary for Oceans and Coastal Zone Management. And
on behalf of my boss, Ian Bowles, the Secretary of the
EEA, welcome, and thank you for coming.

1 This is the third in a series of five public
2 hearings that we will be holding on the Draft Plan
3 that was published at the end of June, earlier in the
4 summer.

5 We've had public hearings now in Boston on
6 Monday, New Bedford last night. We're here tonight.
7 We'll be in Gloucester tomorrow night, and we'll be in
8 Martha's Vineyard next Wednesday.

9 The comment period will -- is open now, and will
10 extend through November 23rd. By statute the comment
11 period is opened until 60 days from the last public
12 hearing.

13 Comments can be e-mailed or mailed to EEA or CZM
14 at the addresses listed at the end of the handouts
15 that are available up at the front desk. Information
16 is also available at the EEA web page, and that's at
17 mass.gov/eea/mop.

18 Tonight's format is a formal public hearing.
19 John will give an initial opening presentation, and we
20 will then take public comment. We ask that speakers
21 limit their comments this evening to three minutes in
22 the interest of brevity, and to make sure all who wish
23 to speak have the opportunity to do so. We strongly
24 urge folks to follow-up with detailed comments in

1 written form, e-mail, posted to EEA as mentioned.

2 To help keep track of time, we'll raise a card
3 at two and a half minutes, and then a card at the
4 three minute limit.

5 You'll notice that we've got video running
6 tonight. We have been videoing all of the public
7 information meetings, hearings and working sessions of
8 the Oceans Planning process. Videos of tonight's and
9 the other public hearings will to be posted on the
10 Massachusetts Oceans Partnership web page if folks are
11 interested in reviewing them, after the fact.

12 We'll begin with comments this evening from
13 elected officials and members of the OEC. And Jack,
14 if you would like to. And then we'll take speakers in
15 the order that they've signed up on the speakers list.

16 I would like to recognize, first off the bat
17 this evening, a Representative Sarah Pete, is joining
18 us this evening, as is Tim O'Neil. An aide for
19 Representative Madden will be out on Martha's Vineyard
20 next Wednesday.

21 With that, John Weber is going to give us a
22 presentation on the Draft Oceans Plan, and then we'll
23 be open for public comment.

24 MR. WEBER: Wow, you're not kidding when you say

1 your are tall. Thank you, Deerin.

2 You have had a copy of the handout of the
3 presentation that I will be working from. It was on
4 the table as you came in and signed in. And I will --
5 so briefly, and just as a reminder, since most are
6 familiar with the Oceans Act of 2008, the Oceans Act
7 required the Secretary of the EEA to establish an
8 Ocean Plan by December 31st of 2009. We were also to
9 have a draft out at the end of June of 2009. It is
10 that draft that we are formally reviewing.

11 Importantly, the Oceans Act required that the
12 Ocean Plan be implemented so it does have keep, but
13 that it must be implemented to existing regulations.

14 There are two of the many things that the Oceans
15 Act required us to do; there are two main things, and
16 much of the presentation tonight focuses on those
17 things.

18 First, it must -- the Plan must contain goals,
19 siting priorities and standards for particular uses
20 allowed pursuant to the Ocean Sanctuaries Act. The
21 Ocean Sanctuaries Act is an overlay of the existing
22 Ocean Sanctuaries Act, which in a lot of ways, limits
23 the number of uses that are allowed in the Ocean
24 Sanctuary.

1 So you can see, the issues that the Plan really
2 focuses on includes things like renewable energy
3 facilities, pipelines cables, and sand extraction and
4 beach nourishment.

5 In addition to that, the Plan must also, as
6 required by the Oceans Act, identify and protect
7 Special, Sensitive or Unique Estuarine and Marine Life
8 and Habitats. So two main things that are specific
9 substantive things that the Oceans Act requires.

10 A couple of other things about the Oceans Act,
11 again, just as a reminder -- and as I will interrupt
12 my presentation to welcome Senator Rob O'Leary, who is
13 the architect of the bill, as well as a member of the
14 Oceans Advisory Commission. Thank you, Senator, for
15 attending.

16 The Oceans Act requires that all State approval
17 be consistent with the Plan; further, in terms of
18 thinking about implementation of the Plan, it directs
19 that the Plan be incorporated into the State's Coastal
20 Zone Management Program.

21 And just as a reminder, the Oceans Act specifies
22 that commercial fishing regulations remains under the
23 jurisdiction of the Division of Marine & Fisheries as
24 it is now; but that the Plan should look to coordinate

1 closely with commercial fishing regulations and
2 commercial fishing issues in general.

3 So a very brief background on the Oceans Act.
4 The results of the work that we have been doing over
5 the last year have really resulted in two main things:
6 One is, of course, the Draft Plan; but a key component
7 of that, in addition to the addressing those specific
8 items that I've mentioned, identification of standards
9 for uses and protection of those marine life and
10 habitats, the Plan also sets forward a framework for
11 continued evolution of the Plan.

12 There is a part of the Plan that has a science
13 framework. We're working with the Science Advisory
14 Council and input from a wide variety of folks. And
15 we have taken a shot at putting together some
16 priority, and additional items that we would like to
17 get out in years to come.

18 So that's an important piece of -- of the
19 overall Oceans Plan because it really sets the stage
20 for what happens beyond December 31st. And I'll jump
21 right into the meat of the plan.

22 From the Ocean -- the Draft Plan identifies
23 three management areas: There is a prohibited area,
24 which is essentially offshore of the Cape Cod National

1 Seashore. That's about 13 percent of the planning
2 area.

3 There are some two areas which combined, occupy
4 approximately two percent of the planning area,
5 identified as renewable energy areas. Those are off
6 of Cuttyhunk and south of Nomans Land in the Vineyard
7 area and off Buzzards Bay.

8 And then the Plan identifies the majority of the
9 remaining area as what is called a multi-use area, and
10 that occupies about 85 percent of the planning area.

11 A little bit more just to identify a couple of
12 things that, umm, also show up in the Plan related to
13 the renewable energy areas. The Plan, as I said,
14 identifies two -- umm, the two renewable energy areas
15 off of Nomans Land and Cuttyhunk. It also identifies
16 three provisional areas that basically reflects the
17 fact that our, the work and the analysis that was done
18 to identify renewable energy areas, identified also
19 some other areas which could possibly be suitable for
20 renewable energy down the road a little bit;
21 particularly if technology advances.

22 And those areas are noted or marked out in a
23 hatched area. There's one in Cape Cod Bay; one south
24 of Gloucester, and one off the Merrimack River.

1 Additionally, the Plan also recognizes, umm,
2 some -- some work at the islands of Nantucket and
3 Martha's Vineyard. We have been working closely with
4 folks at UMass Dartmouth, as well as Congressman
5 Delahunt's office for a Marine -- I think it's a
6 Marine Renewable Energy Test Area. That is the large
7 rectangle we see that is sort of in between Martha's
8 Vineyard and Nantucket, and heads on down to the south
9 in Federal waters. So you can see that map in the
10 Plan as well.

11 In terms of the identification and protection of
12 special, sensitive or unique resources, this composite
13 map identifies all of those such resources and areas
14 that are proposed for a new protective standard under
15 the existing State MEPA program. And this new
16 regulatory siting standard is discussed in the Plan.

17 This composite map is made up of individual
18 areas of marine life and habitats specific to
19 particular uses. So you will see a map, for example,
20 for commercial tidal energy facilities that identifies
21 those uses. And this is essentially to say if you are
22 proposing this type of project, or a sand and gravel
23 extraction project, or a telecommunication or electric
24 cable, there are certain maps that you are to look at

1 as to avoid those areas that are identified on those
2 maps.

3 And again, that is to be implemented through the
4 MEPA program. And similarly, here's the map for the
5 pipelines.

6 One of the points of that is that those maps are
7 different is intentional; because the way those maps
8 were developed, if you think about each particular
9 use, and what human activity and natural resources
10 could potentially have the greatest impact on.

11 I want to say a couple words more about the
12 renewable energy areas that were developed. We
13 started off with a process of looking at
14 identification of such areas using the existing
15 spatial data that we have. So it's very much a
16 quantitative exercise.

17 When we got through looking at that data, we
18 also went much further than that though, by
19 essentially looking at this -- at this issue from a
20 qualitative, best professional judgment-type of
21 standpoint. And there are a couple of different ways
22 that this came to play.

23 Umm, the -- the -- we looked at things such as
24 bathymetry constraints. If you're thinking about

1 renewable energy and, in particular wind, current
2 technology is roughly constrained between about five
3 and 30 meters. So that removes a lot of areas from
4 consideration in terms of immediate practicability for
5 construction of such a project.

6 We also looked at things like cumulatively --
7 cumulative effects, and cumulative impact assessments.
8 An example of this could be some areas around Boston
9 Harbor, or perhaps some areas in Buzzards Bay, where
10 maybe an individual data source by itself, when we
11 mapped that, had left some areas that were not covered
12 by that, that particular data source.

13 But we know that, for example, Buzzards Bay is a
14 world-class recreational area; we're very familiar
15 with all the activity around Boston Harbor. And
16 thinking about things of like, frankly, like
17 geography. Buzzards Bay is enclosed on three sides,
18 that sort of thing.

19 So those types of considerations, umm, we
20 applied with along with our quantitative data rich
21 look at trying to identify such areas.

22 The Plan also discusses and -- and, umm, puts
23 forth some proposals regarding community scale wind.
24 And we've heard some questions about that. The Plan

1 proposes a certain way of allocating such facilities
2 geographically speaking.

3 Community scale wind is defined in the Plan as
4 ten or less turbines. And the Plan talks about
5 distributing those geographically by essentially
6 looking to existing regional planning agency
7 boundaries. That raises immediate questions,
8 obviously, and the Plan discusses it as to what
9 exactly the role of those RPAs would be. The Plan has
10 envisions that there would be a role.

11 And that leads obviously into considerations
12 regarding local and regional approval of specific
13 projects, nuts and bolts, how does this work? Would
14 such a project come to be? And the Plan has some
15 discussion of those items.

16 And then an overall contextual piece about how
17 does community scale wind, should such a project come
18 to be, relate to the Ocean Plan in the State and due
19 process. And you'll see in the discussion of the
20 proposal of this in the Draft Ocean Plan, in
21 anticipating hearing further discussions about that
22 throughout these public hearings.

23 The Oceans Act required the development of a
24 Trust Fund. And this Trust Fund is essentially set up

1 to serve as a vehicle to allow for the mitigation of
2 negative impacts resulting from a specific project.

3 And we are required to put forth some implementations,
4 discussions and, umm, regulations in order to put that
5 into practice.

6 That essentially leads to a need to think about
7 how would we develop mitigation for various types of
8 projects that are out there. We have had some
9 experience with that that we can draw from. And the
10 final note on this is, there is a proposed project, I
11 think a project coming down from Maine that may
12 provide an opportunity in the near-term to put some of
13 this into practice.

14 One of the other questions that we've heard
15 about that has to do with what I mentioned sort of at
16 the top, is that one of the things the Plan does is to
17 very much envision that after December 31st, we're not
18 done. We have a lot more work to do.

19 So how do we ensure that the Plan is hard-wired
20 into and institutionalized so to speak into the State
21 bureaucracy as far as research science and regulatory
22 programs. There is very likely to be a need to
23 develop a guidance in terms of with applying this --
24 this plan. Applying things like the proposed MEPA

1 standards, and we need to do some of that work with
2 other state agencies.

3 The Massachusetts Ocean Partnership, which is a
4 privately funded organization that has been very much
5 assisting us with this. We have an opportunity with
6 them because our close relationship and their funding
7 to implement portions of the science framework. So
8 let's get after that and do some of that work.

9 And then the final bullets are there needs to be
10 a continued important role, obviously, for public
11 involvement. A role for continued involvement of the
12 Ocean Advisory Commission, Science Advisory Council, a
13 body set up to help us develop the Plan, as we
14 transition into more of an implementation phase rather
15 than where we sit now with the Plan itself.

16 So that's about the conclusion of the remarks
17 that I had. Again, to reiterate: Comments deadline
18 is 5:00 p.m. on November 23rd. We have been taking
19 comments, and we have already begun work in response
20 to comments, and looking at potential changes to the
21 Plan that comes from those comments. And the website
22 where you can download the materials electronically,
23 it's also listed on the handout. You will also be
24 asked for a live hard copy.

1 And I believe Senator O'Leary would like to
2 begin our public comment phase.

3 SENATOR O'LEARY: Thank you. I will be very,
4 very brief. I just, first of all, just want to
5 welcome you here tonight, and thank you for coming.
6 And I'll comment on the fact that, as well, many of
7 you already know, tensions and issues around the uses
8 of our adjacent oceans are very much in essence here
9 on the Cape over the last decade. We have struggled
10 over this. There are pretty strong differences of
11 opinions, and I suspect we'll hear some of them here
12 tonight.

13 What we are trying to do is -- is get the public
14 agenda ahead of the project, and as a community, talk
15 about what we want and don't want, what we think
16 should happen and what shouldn't happen, and try to
17 develop some ground rules as we move forward. Because
18 there is a dynamic out there. There are pressures,
19 there are development pressures. They are not going
20 away. There are competing uses. This is public
21 space, and we need to begin to think about it and
22 start making some difficult, and in some cases,
23 painful choices; but I think good ones in the end that
24 I hope will be in the community's interest.

1 that as we discern and think about and deliberate
2 about where -- what kind of final advice will be given
3 to Secretary Bowles and Deerin and John, and others,
4 who have drafted this plan.

5 I also want to congratulate and thank Deerin and
6 John and the president and others who worked so hard
7 on this plan. Senator O'Leary and his colleagues gave
8 -- gave the Commonwealth, the Agency, 18 months to
9 draft and promulgate a plan. And as you can imagine
10 when you work with State bureaucracies, that's a very,
11 very fast time.

12 At my last count, there has been over 125 public
13 meetings, hearings, one-on-one sessions with
14 stakeholders from large groups that have been
15 undertaken by Deerin and his colleagues, and I think
16 that's a Herculean effort in terms of public education
17 outreach on the Plan. So I'm here to listen and I
18 look forward to your comments.

19 MR. BABB-BROTT: Thank you, Senator, and thank
20 you, Jack.

21 Now, we will move to the public comment session,
22 and I'm going to slide the microphone this way.

23 Excuse me. As I call folks, I'll call folks who
24 are next in line, and then I'll also call folks who

1 are on deck, see if we can encourage some circulation
2 to move through this.

3 And I will apologize in advance. I will try to
4 pronounce name properly, but please forgive me if I
5 pronounce it improperly. With a name like Deerin
6 Babb-Brott, I'm sensitive to getting people's names
7 right.

8 There are also "maybes" on the list who said
9 perhaps would like to speak. If you would like to, at
10 this point, jump up; if not, you're welcome to defer.
11 When we go through the list of folks who signed up to
12 speak, I will ask if there are folks who haven't
13 spoken, who would like to or some "maybe" who have
14 changed their mind. Again, so we can make sure
15 everybody has the opportunity. We ask folks stick to
16 the three-minute rule.

17 So jumping ahead I have Heather Walsh from the
18 Conservation Law Foundation. And I have Sharon Rooney
19 from the Cape Cod Commission on deck.

20 MS. WALSH: Thank you. Good evening,
21 my name is Heather Walsh and I am an attorney at the
22 Conservation Law Foundation. CLF is a non-profit
23 member supported environmental advocacy organization
24 with a long history of protecting New England's ocean

1 environment as well as addressing the threat of global
2 warming by promoting responsible new -- renewable
3 energy development and energy efficiency, and by
4 pursuing initiatives to reduce dependence on fossil
5 fuels. On behalf of CLF's members, I'd like to thank
6 you for giving us this opportunity to comment on the
7 Massachusetts Draft Ocean Management Plan.

8 We would like to start off by echoing the
9 comments by Jack Clark and compliment the Commonwealth
10 and in particular the Coastal Zone Management staff
11 who have undertaken detailed data and policy analyses
12 and conducted the truly exemplary public process that
13 has produced this first in the nation, comprehensive
14 ocean management plan for Massachusetts ocean waters.
15 The Plan is built upon an impressive database and
16 generally presents an elegant framework for
17 integrated, multi-use ocean management.

18 Tonight, we are going to narrowly focus our
19 comments on two issues: First, the identification and
20 protection of Special Sensitive or Unique marine
21 resources or so-called SSUs; and second, the siting of
22 appropriate-scale renewable energy facilities.

23 In our view, one of the most important
24 provisions of the Massachusetts Oceans Act, and indeed

1 one of the most specific mandates in the Act, is to
2 identify and protect special, sensitive and unique
3 marine resources, or SSUs.

4 We think the Plan has done a good job in
5 identifying SSUs based on data that has been gathered
6 and assimilated to date; however, the Plan does not
7 adequately protect their critical resources.

8 All of Massachusetts state waters are public
9 trust resources that must be protected through careful
10 stewardship. The Massachusetts Oceans Act properly
11 places a firm obligation on the Executive Office of
12 Energy and Environmental Affairs as public trustee for
13 these resources to specifically protect SSUs for the
14 sake of present and future generations. We believe
15 the present draft Ocean Management Plan does not
16 adequately fulfill that obligation.

17 The proposed siting standard for projects in
18 SSUs is an untested legal concept which places a vague
19 and unquantified burden on the developer and
20 essentially creates a burden on the State to defend
21 SSUs on a project-by-project basis. As a practical
22 matter, the proposed performance standard, the
23 developer will show that there is "no less damaging
24 practicable alternative", appears no more stringent

1 than current MEPA and permitting requirements that
2 apply to projects in *any* state waters.

3 We strongly recommend that the State revise the
4 siting standards in SSUs to truly protect SSUs as
5 required by the Massachusetts Oceans Act. We
6 recommend a three-part siting and performance standard
7 consisting of a rebuttable presumption that a less
8 damaging alternative exists outside the SSUs; that the
9 public benefit outweighs the cost to the SSU
10 resources; and that the project design does not cause
11 a significant adverse affect to SSU resources and
12 habitats. This three-part standard would properly
13 protect the SSUs *as required by the Massachusetts*
14 *Oceans Act*. We therefore urge you to revise the SSU
15 siting standard accordingly. The Act requires no
16 less.

17 Beyond identifying and protecting SSUs, another
18 critical objective of the Massachusetts Oceans Act is
19 to allow responsible, "appropriate-scale" renewable
20 energy development for the first time in all State
21 waters other than the Cape Cod Ocean Sanctuary. Yet,
22 we believe that the Draft Plan is overly restrictive
23 with respect to offshore wind energy projects and,
24 unless the Plan is modified, there may not be *any* such

1 projects developed in State waters for many years to
2 come.

3 With respect to the community wind projects, the
4 Plan sets an absolute cap of ten turbines *per RPA*. We
5 believe this is too limiting and is not only
6 arbitrary, but also risks pitting communities against
7 each other as they begin to seek opportunities to tap
8 into local, clean energy resources.

9 Also while we believe the proposed requirement
10 for community wind projects to demonstrate support
11 from their "host communities" is well-intentioned, the
12 Plan needs to more clearly lay out how such a standard
13 could be met in an objective manner that would apply
14 across all communities. This will enhance
15 predictability for communities and developers alike.

16 Also, the Draft Plan's proposed requirement that
17 community wind projects must demonstrate "direct local
18 economic benefit" is too vague and misses an
19 opportunity to set a level and fair playing field. We
20 recommend that the Draft Plan be revised to follow the
21 example set under the Federal Energy Policy Act of
22 2005 that calls for sharing of 27% of Federal offshore
23 renewable energy lease fees with the states located
24 closest to each project.

1 Such an explicit lease fee-sharing mechanism
2 should be set to ensure that adjacent, or "host,"
3 communities receive a fixed percentage of lease
4 revenues paid by projects to the Commonwealth.

5 With respect to larger-scale wind energy
6 projects, we appreciate that the Draft Plan identifies
7 the two Wind Energy Areas that appear suitable for
8 such projects. However, we would like to caution that
9 these are relatively deep waters and very exposed
10 sites, and offshore wind technology appropriate for
11 such sites has not yet been proven. It is therefore
12 even more important to foster responsible wind energy
13 development in other locations that are more suitable
14 for near-term projects.

15 In this light, it is imperative to set the stage
16 now for successful deployment of responsible community
17 projects. And it is also important to go forward with
18 further exploration of the three provisional sites
19 identified in the Draft Plan rather than putting them
20 on hold for now as the Draft Plan suggests.

21 We will be submitting detailed written
22 comments on the Draft Ocean Management Plan in
23 October, and we look forward to working with the
24 Commonwealth to revise and the Plan.

1 Thank you for this opportunity to provide
2 comments.

3 MR. BABB-BROTT: Thank you.

4 Excuse me. As folks come up to speak give us a
5 fighting chance to let you know the time is while
6 looking up on the left.

7 MS. ROONEY: Thank you. For the record I'm
8 Sharon Rooney --

9 MR. BABB-BROTT: Before you jump in, Sharon.
10 Glen Wattley will be next on deck.

11 MS. ROONEY: Okay, thank you. Sharon Rooney,
12 I'm the Chief Planner for the Cape Cod Commission.
13 And I expect that our director may be arriving and
14 also providing comments to you.

15 I'm here on behalf of the Commission's Planning
16 Committee that is currently reviewing the Draft Ocean
17 Management Plan, and the Commission -- the full
18 Commission will be submitting some formal comments at
19 a later date.

20 First of all, we want to applaud your efforts
21 for the level of the analysis that has gone into the
22 Plan; especially given the time constraints by the
23 Oceans Act.

24 The Committee's review has focused on four

1 areas: First, the potential changes in MEPA
2 regulations. The Draft Ocean Management Plan states
3 that EEA recommends changes of several existing State
4 regulations, including Chapter 91, the Wetlands
5 Protection Act and MEPA.

6 The Commissioners regulatory review for projects
7 in State waters was triggered by the requirements for
8 an EIR under MEPA. Therefore, potential changes to
9 the thresholds that trigger an EIR is of concern to
10 the Commission. We recommend that changes to these
11 regulations contemplated by EEA be identified in the
12 final Ocean Management Plan.

13 The second area is related to the first, which
14 is the new siting standards for the environmental
15 impact report. The Plan also proposes the new siting
16 standards, as the previous speaker just mentioned, for
17 environmental impact -- impact report proposed in
18 areas of special concerns -- special, sensitive or
19 unique resources in the multi-use areas.

20 As the multi-use areas comprises the majority of
21 the planning area, we are concerned that this new
22 standard avoid demonstrate no practical alternatives
23 or demonstrate the data in the Plans without
24 accurately characterize the resource of use, without

1 any regulatory guidance of how to use the standard may
2 result in inappropriate development in sensitive
3 resource areas.

4 A third issue is concerning with scenic and
5 cultural resources, which are not addressed in the
6 Draft Plan. It does not -- the Plan does not address
7 the potential impact of various forms of ocean
8 development on scenic and cultural resources. The
9 protection of these resources is one of the key
10 purposes of the Cape Cod Commission Act. And as a
11 region that depends heavily on tourism for its
12 economy, the Commission recommends that impacts to
13 scenic and cultural resources both in terms of visual
14 and economic impact be addressed in the final Ocean
15 Management Plan.

16 And the final issues concerning the Trust Fund,
17 both administration and the disbursement of the Fund.
18 The Oceans Act requires the establishment of the Trust
19 Fund for user fees and mitigation fees are collected
20 until a use is identified.

21 The Commission recommends that the final plan
22 address both the mechanism for collecting and
23 disbursing the fees, and that the Plan clarify
24 mitigation should benefit communities' impacted by

1 development.

2 Again, we'll be submitting formal comments,
3 hopefully later in the month. Thank you.

4 MR. BABB-BROTT: Thank you. Again, thank you,
5 and then on deck is Bob, and I'm not going to read the
6 last name, because I can't read the writing and I
7 don't want to do it out loud from MMTA.

8 MR. BUTCHER: Butcher.

9 MR. BABB-BROTT: Thank you.

10 MR. WATTLEY: Good evening. I'm Glen Wattley,
11 president of the Alliance to Protect Nantucket Sound.
12 I appreciate this opportunity to comment on the Draft
13 Ocean Plan. I commend Senator O'Leary, the Advisory
14 Commission, its staff and consultants for producing a
15 most impressive document. However, the Plan is
16 deficient in some aspects, so the Commission needs to
17 correct these prior to promulgation.

18 I will comment on two issues specifically. The
19 Draft Plan ignores two Federal laws: The National
20 Historic Preservation Act and the Migratory Bird
21 Treaty Act, which I'll refer to as the MBTA.

22 First, concerning the Historic Preservation, the
23 Federal environmental review on the Cape Wind project
24 has confirmed that placement of wind turbines on

1 Horseshoe Shoal would adversely impact over two dozen
2 historic sites in the Nantucket Sound region. Two of
3 these sites are national historic landmarks:
4 Nantucket Island and the Kennedy Compound. There are
5 also adverse impacts to tribal assets.

6 The Federal government has not resolved these
7 issues. If turbines that might be five miles from
8 shore adversely impact historic and cultural assets,
9 it's only logical that utility scale turbines in State
10 waters within three miles from the shore would result
11 in greater adverse impacts to historic and tribal
12 sites. These are not even mentioned in the Plan,
13 which as I indicate, must comply with the Historic
14 Preservation Act.

15 Concerning adverse impacts on migratory birds,
16 it's surprising that the Plan totally ignores the
17 MBTA. The MBTA is a strict liability, criminal and
18 international trade treaty law. The Federal review
19 process of the Cape Wind project has documented the
20 fact that wind turbines placed on Horseshoe Shoal
21 would kill or take up to 6,600 birds per year. This
22 is according to the Mass. Audubon letter that we find
23 in the Federal file.

24 It would thus be logical that turbines in the

1 State waters of Nantucket Sound would kill or take
2 thousands of migratory birds.

3 The Alliance notes that we -- notes that we
4 participated in an Ocean Commission workshop. And the
5 Alliance also follows up with a letter to the
6 Commission pointing out that historic preservation and
7 avi -- avian issues need to be properly addressed in
8 the Plan. So we respectfully repeat this point.

9 The Alliance also finds it troubling that the
10 MBTA was totally ignored; yet, one of the Commission
11 is an avian expert, Mr. Jack Clark from Mass. Audubon.
12 Mr. Clark was one of the experts that projected Cape
13 Wind would take up to the 6,600 birds.

14 The Alliance notes, or hopes, the Commission
15 will properly utilize Mr. Clark's avian experience to
16 address compliance with the MBTA. And just as a quick
17 follow-up comment to CLF's attorney's comment about
18 technology advancing, I just returned from a trip from
19 China. And they do have boating platforms,
20 commercially available that the Chinese have had there
21 for two years. So we do recognize that deep water
22 technology is available. Thank you.

23 MR. BABB-BROTT: Thank you. Please.

24 UNIDENTIFIED SPEAKER: It seems to me that a

1 number of speakers so far are reading from prepared
2 text. Are you recording this? Or if not, could you
3 consider having them submit their comments to you?

4 MR. BABB-BROTT: Sure. The question was if
5 folks couldn't hear it, that the observation is that
6 people are reading from prepared comments and should
7 we be recording this. We are both videoing and we're
8 also recording, and there will be a transcript
9 prepared of this evening's comments that will become a
10 formal part of the record.

11 We are also encouraging as I said folks to
12 submit detailed written comments by mail or post. If
13 folks have written comments they wish to give us
14 tonight, we're happy to take them?

15 UNIDENTIFIED SPEAKER: Thank you.

16 MR. BABB-BROTT: You're welcome. Bob Butcher
17 from MMTA. And then I have the first "maybe" of the
18 evening with Bill Veno or Veno. I apologize again for
19 the name.

20 MR. BUTCHER: Thank you very much. I'm Bob
21 Butcher from Cape Cod Wind Trade Association, and
22 Massachusetts Marine Trade Association. And I'm
23 employed by Kellogg Marine.

24 Good evening and thank you very much for

1 allowing me the opportunity to comment on the Draft
2 Ocean Management Plan proposed by the Executive Office
3 of Energy and Environmental Affairs. As stated
4 earlier in the hearing, the MMTA represents over 1200
5 marine trade businesses in Massachusetts, employs over
6 27,000 men and women, and generates an estimated
7 \$1.7 billion in annual economic activity.

8 The Cape Cod Marine Trades Association is a very
9 active regional association, who works closely with
10 the MMTA and consists of nearly 100 marine-related
11 businesses on Cape Cod.

12 The Ocean Management Plan is of great importance
13 to both our members and recreational and commercial
14 boaters that are customers -- that are customers that
15 represent our livelihood.

16 The task has identified all the various uses of
17 coastal waters as such, to say the least. You're
18 charged was evidence in this.

19 I find it fascinating and both interesting data
20 that no doubt would be the basis for decisions about
21 how our coastal waters will be utilized. That's why
22 it's critical that it's done as accurate as possible
23 for the first time.

24 The charge of the MMTA supplied you with details

1 of recreational uses for our waters. I believe the
2 Draft Chart 419 does not accurately include the routes
3 or the recreational areas that were submitted by the
4 MMTA. I feel that it's critical to include these
5 areas with an honest and accurate representation of
6 the recreational boating areas s depicted in the final
7 draft.

8 I would like to submit for you review several
9 maps that reinforce what the MMTA maps clearly
10 depicts. I hope this additional information provided
11 by our membership will further support documentations
12 we've already provided you.

13 These recreational areas include parts of Cape
14 Cod Bay along the Barnstable, Sesuit shoreline,
15 Wellfleet and Provincetown. Also included are
16 portions of Vineyard Sound and Nantucket Sound. It's
17 important that these recreational boating areas are
18 clearly shown. These are the areas where boaters
19 engage in activities that include: Waterskiing,
20 tubing, leg board and sailboat racing, cruising,
21 powerboat racing, evening sails and short and long
22 duration cruises.

23 The routes that we depicted take local and
24 visiting boaters to and from island anchorages,

1 harbors and to fishing grounds.

2 Thank you very much for your time, and I hope
3 you will include this information in the final draft.

4 MR. BABB-BROTT: Thank you. Bill from Martha's
5 Vineyard Commission.

6 MR. VENO: I'm Bill Veno, I'll defer until --

7 MR. BABB-BROTT: Okay. If I miss, just remind
8 me when we come back here.

9 And that would have our next speaker Michael
10 Spillane. On deck would be Greg Egan.

11 MR. SPILLANE: Thank you very much, Commission.
12 You have done a wonderful job preparing -- preparing
13 the Plan, and I want to commend you. I do represent
14 Massachusetts Boating & Yacht Association. Its
15 primary stance is to represent recreational boaters up
16 and down from the north shore and south shore and
17 right down to Cape Cod.

18 There are concerns echoing Mr. Butcher's
19 comments about the representations of those maps in
20 traffic, particularly, in the Vineyard and Nantucket
21 Sound area. There are ferry routes that are not
22 considered in those maps. The MMTA map is more
23 accurate.

24 There are concerns, from my association, about

1 the ability for boaters who sail, who power boat, who
2 race navigating around these areas where you have ten
3 turbines, and how many turbines will exist? So these
4 are issues really that are on the minds of all
5 recreational boaters, sailing and power alike, will be
6 able to navigate safely in the water.

7 You don't really -- part of the, I think, the
8 concern that our association has echoed in all these
9 meetings is really any type of plan that, though it is
10 presented to the committee, about really how big the
11 turbines would be, how many of them, and what areas,
12 and so forth.

13 So if there is going to be limitations to these
14 10 areas, these areas where you have ten turbines, we
15 would like to know that as well. That's really about
16 it. Thank you very much.

17 MR. BABB-BROTT: Thank you. Excuse me. Gregg,
18 and then on deck, would be I believe Neil Good.

19 MR. EGAN: Good evening, Senator O'Leary,
20 Misters Weber and Babb-Brott, the whole task force. I
21 appreciate the opportunity to comment this evening and
22 thank you, sincerely, for seeking input from the
23 constituencies with experience and familiarity with
24 the tradition and use our local water.

1 My name is Gregg Egan of the Crosby Yacht Yard
2 in Osterville. Our firm serves over 1,000 members of
3 the boating public. I also speak formally on behalf
4 of the Massachusetts Marine Trade Association and the
5 Cape Cod Marine Trade Association, as to my colleagues
6 before me.

7 Although the overall framework appears to be
8 satisfactory, important data relative to the
9 recreation of boating use had been admitted from the
10 Draft Plan, as identified by Mr. Butcher. I call your
11 attention to the vital need to include this data.
12 Most specifically, there are wide areas around Cape
13 Cod, including Nantucket Sound particularly, with its
14 many harbors and bays, that are not appropriately or
15 accurately identified as areas that are frequently
16 used by boaters.

17 The very purpose of the Plan is to do -- do that
18 type of thing, and the efforts to recognize those
19 areas have seemingly been obviated. It's my
20 understanding that it's a mistake or oversight, and
21 there is some problem digitizing, transferring data
22 from one chart format to the other. And hopefully
23 that's the case. And we hope that all of our input
24 that was the -- the fieldwork that we did, the groups

1 will be accommodated.

2 Another important issue not addressed by the
3 Draft Plan is the acknowledgment of radar interference
4 created by certain structures that are located in or
5 nearby to waters transited by recreational and
6 commercial vessels. This is vitally an important
7 safety topic, and one that needs to be included in any
8 document purporting to zone or code the waters for
9 use.

10 The Coast Guard, for example, has recognized
11 that wind turbines, for example, do cause interference
12 to marine radar systems. So to us, it's a very
13 important issue, important consideration, you know,
14 very likely larger at stake with these types of
15 complications.

16 One final consideration that the Draft Plan
17 needs to address is a so-called security zone. Apart
18 from the structure itself, many installations might
19 require some type of a security or buffer zone. And
20 this determination can be made at any time by a
21 Federal or State authority. Such zones could be
22 identified by lights, flashing light markers, or even
23 patrol vessels.

24 Many times, security zones are deemed and

1 promised to be temporary, with all of the best
2 intentions; although that classification ends up being
3 permanent, and a large swath of natural water is
4 determined to be off-limits for navigation.

5 So not only does the physical structure cause
6 disruption and safety hazards, if placed in an area of
7 routine vessel navigation, the intended buffer zone
8 would also serve to widen the footprint and impact.

9 So we would like to see a mechanism in the
10 Oceans Management Plan to evaluate the scope and
11 nature for the need for the security zone proposals,
12 and the unintended potential of the same; in fact, the
13 very being, the very idea of these, regardless of the
14 type of structure they are related to, should be
15 evaluated on their own for potential allowance in
16 different zones.

17 I appreciate the opportunity to comment, and I'm
18 very appreciative that our industry has been welcomed
19 for input from the outside of this project. Thank
20 you.

21 MR. BABB-BROTT: Thank you.

22 Neil Good. And then on deck would be Luke
23 Olivieri who has superlatively clear handwriting.

24 MR. GOOD: Hi. Thank you for providing me the

1 opportunity to comment -- Neil Good. I thank you for
2 providing me the opportunity to comment. But really,
3 a simple question that I have for you: I believe that
4 we had what is called the Cape Cod Ocean Sanctuary
5 Act, I would say 20 years ago, which included all of
6 Nantucket Sound. But today, I believe it's now part
7 of this Oceans Management Plan. An electrical power
8 generation was banned in the original act.

9 I don't think I've ever seen an adequate
10 explanation for how Nantucket Sound's, let's say,
11 stature in the original Act changed and is now, I
12 guess, no longer what you consider a special,
13 sensitive or unique resource. Would an explanation be
14 provided in the final Plan in how Nantucket Sound was
15 removed?

16 MR. BABB-BROTT: Umm, I'll take that as a
17 comment, and perhaps we can address that in the Plan.
18 But just as very briefly stepping outside the format
19 and protocol here.

20 The Oceans Act itself addresses the issue of
21 ocean sanctuaries and how uses are allowed in those
22 and that discussion is explained fully in the Oceans
23 Plan.

24 MR. GOOD: Thank you.

1 MR. BABB-BROTT: You're welcome.

2 Luke Olivieri, and then David Dow will be on
3 deck.

4 MR. OLIVIERI: Good evening. My name is Luke
5 Olivieri, a 44-year resident of Yarmouth. Thank you
6 very much for hearing everybody's comments tonight.

7 What are we going to leave our children? Will
8 it be the imposing gorgeous dunes of the outer Cape
9 and the pristine waters of our bays known across this
10 country? Or will it be the industrialization of our
11 coastlines, including a city of wind turbines in the
12 Sound, with strobe lights running 24 hours a day, and
13 a dangerous substation that could spill tens of
14 thousands of gallons of oil onto our beaches where
15 kids play. This is the Cape Wind proposal. And I
16 remind everybody, that it's still a proposal.

17 President Kennedy walked the beaches of
18 Hyannisport in solitude, and gazed at the tranquility
19 of Nantucket Sound to clear his mind before he had to
20 make major decisions that affected millions. He
21 created a national seashore to preserve the wildness
22 of the outer Cape, where we all have the right to
23 venture into when we need to restore our tattered
24 spirits frayed by the working day world. This is one

1 of his great legacies to all of us here tonight.

2 It is unconscionable to me to consider putting
3 huge wind turbines as close as 1500 feet from shore,
4 when there are alternate technologies with much less
5 environmental impacts. Blue Age USA has developed
6 wind turbines on floating barges, and is working to
7 anchor them to the sea bed 23 miles south of the
8 Vineyard, out of sight. Wind velocities are much more
9 strong and constant out there.

10 Better still is the tidal turbine, which
11 operates underwater, producing constant electricity,
12 23 hours out of each day. Wind turbines on land spin
13 intermittently or not at all because wind is variable.
14 We all know the tides moves like clockwork. And water
15 currents really are 1,000 times more forceful than air
16 turbines.

17 Tidal turbines have been tested with amazing
18 success in New York City's East River. A single
19 turbines powered a huge supermarket and a four-story
20 garage. Imagine the entire length of the Cape Cod
21 canal lined with single filed ranks of underwater
22 turbines on each end. A line of buoys, notify
23 mariners of their positions below. The turbines
24 blades move slowly enough not to harm Marine life.

1 the Massachusetts Executive Office of Energy and
2 Environmental Affairs prior to the November 23rd
3 deadline. So my comments will just cover a few areas
4 of interest to us.

5 The State's Coastal Zone Management and other
6 offices should be congratulated for all the work that
7 they did, and in a short time, to provide a draft
8 Massachusetts Ocean Management Plan report that is to
9 be implemented in 2010, after the report is approved
10 by the State legislature.

11 My first observation is that the residents of
12 Cape Cod are already being impacted by climate
13 disruption. One piece of evidence is the difficulty
14 Cape Cod homeowners in purchasing insurance in the
15 private market. And even though they can purchase
16 insurance in the private market for homeowners
17 insurance, face a large wind deductible.

18 The recent NOAA fisheries report on the
19 ecosystem status of the Northeast continental shelf
20 large marine ecosystem, shows shifts in the
21 distribution of fish species illustrates the effect of
22 natural man-made climate change in the adjacent
23 oceans.

24 The Draft MOP Report doesn't address how we're

1 going to deal with this shifting baseline phenomena in
2 the natural environment in the ocean, and especially
3 in regard to the SSUs and EEIs that form the basis of
4 the environmental analysis.

5 The land coastal communities will have to
6 develop adaptations, mitigation and resilience
7 strategies to ameliorate the effects of climate
8 disruption. The marine spatial planning process
9 utilize the MOP, and the related to ecosystem-based
10 management process plays out many of the details on
11 implementation and who is responsible, if things don't
12 go as predicted.

13 The Draft report describes meetings and various
14 reports and data bases that were used to support the
15 planning process, but provides little information on
16 the desired outcome.

17 The multiuse areas dominates the MOP planning
18 region; but the siting criteria and performance
19 measures will ensure balancing of human uses with
20 protection of the environment and conservation of our
21 cultural resources are very vague.

22 We feel that the State needs to consider
23 bringing protected areas and special animal management
24 plans to provide protection for the SSUs, and

1 conservation for the 22 species to utilize develop the
2 EEIs.

3 One of the more complex in policy decisions in
4 the MOP report is making fisheries part of being a
5 preferred human activity in the multi-use areas. Even
6 though the Massachusetts Division of Marine Fisheries
7 has management authority for commercial fishing and
8 saltwater angling.

9 The Sierra Club feels that only sustainable
10 fishery should be part -- should be considered a
11 preferred human use. The Marine Stewardship Council
12 has only certified the big sea red craft as a
13 sustainable fishery off of our coast. In 2008, the
14 New England Fishery Management Council indicated that
15 17 of those 37 stock -- managed stock where they're
16 overfished are subject to overfishing.

17 The NOAA Fishery Ecosystem Status Report
18 indicated that the ecosystem overfishing is occurring
19 in our region. The Coastal Zone Management Office and
20 the Massachusetts Division of Marine Fisheries need to
21 organize a constituent working group of fishing
22 organizations, environmentalist NGOs, animal rights
23 groups and the seafood industry consumers to develop
24 an operational definition of sustainable fishing, and

1 applying this to preferred activities in the multi-use
2 areas.

3 Of the National Sierra Club of the Massachusetts
4 Chapter has sustainable fishing policies. We adapt a
5 consistent based management process should be
6 supported by documents, synthesizing the ecosystem
7 status, and encourage human uses.

8 The Draft MOP report has many maps and
9 supporting data bases but it is data rich and
10 information poor. The State needs to conduct some
11 type of baseline monitoring program with associated
12 ecological indicator with performance measures to see
13 if changes need to be made in the underlying
14 conceptual model that guides the management process.

15 This monitoring is prevalent would provide a
16 concept with the site's specific monitoring required
17 for renewable energy projects.

18 The public was shut out from the Ocean Advisory
19 Commission and the Scientific Advisory Council
20 endeavors in supported development of the MOP Draft
21 Report. There is a need for proactive public
22 involvement process, rather than simply seeking public
23 comments on documents prepared by State agencies. A
24 better outreach process is required to support the

1 adaptive management process.

2 Finally, there is a need to address community
3 benefits in the implementation of MOP. This topic is
4 explored in more detail. In the consensus statement
5 from the June 18th, the Island & Cape Wind community
6 benefits committee that was held at Wood's Hole.

7 The Cape Cod & Islands feels that the funds
8 generated in renewable energy permitting and
9 development that goes to the Ocean Resources and Water
10 Resources Trust Fund should be support -- used to
11 support energy just as activity here on Cape Cod.

12 The needs in this area exceed the available
13 resources, and the Trust Fund can support community
14 benefits in this area.

15 I want to thank you for considering our comments
16 on the MOP.

17 MR. BABB-BROTT: Thank you.

18 MR. HITCHCOCK: I'm Ned Hitchcock from
19 Wellfleet. I'm speaking tonight on behalf of the Cape
20 Cod Bay Council, which is an advisory group to the
21 Provincetown Center for Coastal Studies. This
22 representation from the 14 towns around the Bay.

23 It also includes representatives from local,
24 Federal and State agencies, and non-profit and

1 together, the CCBC focuses on regionally significant
2 environmental and resource management issues.

3 We commend the EEA for its tremendous efforts in
4 preparing the plans in such compressed time. The Plan
5 reflects inter-agency coordinations, as well as
6 collaboration among a variety of stakeholders.

7 We continue to support EEA's efforts to develop
8 a comprehensive Ocean Management Plan, and while
9 recommending -- and recognizing the time of various
10 constraints placed on this efforts by the Oceans Act
11 of 2008, we offer four main recommendations for the
12 final plan. Additionally, there are some comments on
13 other incidental categories.

14 One, the co-principals guiding the development
15 of implementation of the Ocean Management Plan are not
16 clearly stated. Is it the Commonwealth's intent to,
17 A, maintain a status-quo for current resources, or B,
18 restore and enhance resources?

19 There are distinct approaches to address each,
20 and the Draft Plan does not include a discussion of
21 restoration in the Plan.

22 Number two. The final Plan would be enhanced by
23 providing more detail of the process of refining and
24 implementing the Plan. Outlining parallel what that

1 assessed are sufficient for regulatory review and what
2 data is needed.

3 Outlining the regulatory framework, identifying
4 where there are existing or potential conflicts within
5 the regulatory review process, Federal, State,
6 regional and local jurisdictions, and how these might
7 be resolved as the Ocean Management Plan is
8 implemented.

9 Three. Acknowledging the limitations of the
10 available data, and the analysis of data used to
11 prepare the resource statement and develop the
12 compatibility assessments, and an ecological
13 evaluation of this. The Draft Plan does not discuss
14 how regulatory agencies and project proponents are to
15 consider these limitations and given the process,
16 particularly in the first few years of implementation.

17 Four. Coordination among jurisdictions, in
18 particular with local government, should be more fully
19 developed in the Plan. There are a number of
20 regionally focused groups in the networks, such as the
21 Cape Cod Bay Council, that have a diverse membership
22 and work on a variety issues. The CCBC encourages the
23 EEA to consider engaging these regional groups in
24 discussion on developing models for local, State

1 coordination on coastal management issues. These
2 groups can make many meaningful contributions
3 identifying many of the ways to implement strategies
4 identified that go under water. Thank you.

5 MR. BABB-BROTT: Thank you. Our next speaker
6 would be Gregg Gifford. And on deck would be Arthur
7 Parker.

8 MR. GIFFORD: Seems somehow I've done this
9 before. Deerin, John have done a very good job in our
10 group, as said earlier getting things together and
11 plans for everybody.

12 Good evening my name, my name is Captain Charles
13 Gifford. I'm the core captain for the Wood's Hole
14 Martha's Vineyard and Nantucket Steamship Authority.
15 And thank you for the opportunity to speak on this
16 most important issue for the Ocean Plan in
17 Massachusetts.

18 The Steamship Authority has passed through
19 legislation to provide safe and reliable service to
20 the islands of Martha's Vineyard and Nantucket. We
21 simply cannot tie up the boats and go fishing or go to
22 the beach just because it's a nice sunny day. We are
23 mandated to run.

24 During the course of the year, we complete over

1 22,000 trips to the Islands, and transport close to
2 three million passengers and over 600,000 cars and
3 truck. Utilizing Wood's Hole and Hyannis as their
4 home ports in Cape Cod.

5 As the waterways become more crowded with
6 potential alternative energy projects that are
7 important for the Mass. Ocean Plan, keep in mind the
8 jurisdictional boundaries with Federal regulations for
9 the uses of the water, these additional ventures have
10 the potential for creating significant hazards for
11 safe navigation for all types of vessels operating in
12 the Massachusetts waters and the Federal doughnut hole
13 in Nantucket Sound.

14 Simply moving a vessel track to either east,
15 west, north, south is not an option. Siting locations
16 of the wind turbines, sand mining and other
17 contemplated projects proposed in the navigable waters
18 of Massachusetts, must be vetted by the Coast Guard to
19 ensure vessels are not unduly hampered by
20 obstructions.

21 During adverse weather conditions, it is common
22 for vessels to change course frequently to apply for
23 safe passage. Eliminating the ability of vessels to
24 maneuver in this manner, will result in more frequent

1 cancellations of service to avoid placing our vessels
2 and passengers in great risk.

3 Additionally, proposed structures or
4 obstructions would create trip points near entrances
5 to harbors and inlets. In reference to radar
6 interference, safe separation of two nautical miles
7 from certain structures must be considered for vessels
8 to safely navigate and comply with rules of the road.

9 A 2004 study in the UK, the Maritime Coast Guard
10 agency, conclude that interference on marine radars
11 due to wind turbines were found to be considerable and
12 that a suitable safe distance be establish for traffic
13 routes.

14 Compliance with pole rates and rules of the road
15 have become difficult with radar interference giving
16 false information may prevent vessels to change in
17 course and/or speed as to the. Although rules of the
18 road dictates certain procedures may not be reasonable
19 to seize commercial commerce in light of poor or
20 limited visibility.

21 Environmental conditions in the winter of 2004
22 commerce was brought to a stand-still on Nantucket
23 Sound with ice flows and the sound and in the Bay. As
24 you're aware, Hyannis Harbor and the approach was

1 frozen in the second wave, blockaded Nantucket Harbor.
2 How are additional structures in Nantucket Sound and
3 area affect these ice flows.

4 In conclusion, the Steamship Authority urges the
5 Plan to take serious consideration for time to the
6 final action. Also bear in mind, the citizens of
7 Massachusetts and their lives and livelihood. Thank
8 you.

9 MR. BABB-BROTT: Thank you.

10 Audra Parker, and then William Burke on deck.

11 MS. PARKER: Hi my name is Audra Parker, and I'm
12 Executive Director of the Alliance to Protect
13 Nantucket Sound. Thank you for the opportunity to
14 provide comments. I have several issues that I
15 respectfully request to be addressed and resolved in
16 the final plan.

17 First of all, I am concerned that Nantucket
18 Sound is not being adequately addressed. Nantucket
19 Sound is unique in that it spans both State and
20 Federal waters. However, the State plan completely
21 ignores the Federal waters of Nantucket Sound. The
22 final plan should include all of Nantucket Sound
23 because the State manages all of the fisheries
24 resources in the Sound, and because other locations in

1 Federal waters are being studied in the Draft Plan.

2 The Draft Plan states that locations in Federal
3 waters adjacent to the two Wind Energy areas are being
4 evaluated, and that "the three-mile limit of State
5 jurisdiction is an artificial constraint to
6 considerations for technology, economics,
7 environmental and social benefits and impacts."

8 In addition, the State and the Federal
9 government are both undertaking ocean zoning.
10 However, the Federal process has just begun, so it is
11 not clear how these plans can or will be integrated
12 given the timing.

13 Nantucket Sound should be treated as one
14 ecosystem in both the State and Federal plans, and all
15 of its waters should be included in the final State
16 plan in order to protect this body of water from
17 inappropriate and uncoordinated development.

18 Secondly, local communities need to have a
19 strong role in siting decisions that directly affect
20 them. The Oceans Act weakened existing protections
21 for our state sanctuaries allowing renewable energy
22 projects. The Draft Plan resulting from the Act now
23 allows groups of up to 10 turbines in the majority of
24 State waters as close as one third of a nautical mile

1 from shore. The Plan states these projects would be
2 subject to support of the local community, and that
3 the Cape Cod and Martha's Vineyard Commissions have
4 the authority to regulate development within their
5 jurisdictions.

6 However, in the case of the proposed Cape Wind
7 project, the State has taken steps to override the
8 local community. The MA Energy Facilities Siting
9 Board overrode Cape Cod Commission's denial of a key
10 permit for Cape Wind as well as eliminated the need
11 for permits by the towns of Barnstable and Yarmouth.
12 This decision, which is currently under appeal, has
13 serious implications not only for Cape Wind, but also
14 for local control over the energy projects the State
15 is now allowing.

16 The final plan needs to ensure that local
17 communities do, in fact, have a strong say in
18 developments in their waters, and cannot be overruled
19 by the Siting Board.

20 Third, while the Plan includes public safety in
21 its screening criteria, it completely ignores the
22 critical issue of radar interference caused by wind
23 turbines. The rotating blades of wind turbines causes
24 radar interference to marine and aircraft guidance

1 systems as well as missile defense systems. For
2 example, Coast Guard Studies have shown that turbines
3 would cause radar interference to marine navigation in
4 the heavily used waters of Nantucket Sound.

5 The FAA has issued a presumed hazard
6 determination for Cape Wind because the proposed
7 turbines would cause radar interference to air traffic
8 control systems and reduce the probability of
9 detecting small aircraft.

10 This region has three air traffic control sites,
11 in Truro, in Nantucket and at Otis, that provide
12 detection for the 400,000 flights per year that
13 traverse Nantucket Sound and that would be affected by
14 wind turbine installations.

15 In addition, PAVE PAWS, the missile defense
16 system at Otis would be adversely affected by the
17 turbines located within line of sight. The Department
18 of Defense studied radar interference posed by wind
19 turbines to their early warning radar system and
20 established a 25 kilometer offset zone. The Draft
21 Plan completely ignores this offset zone which extends
22 roughly from Falmouth Harbor to Lewis Bay.

23 Radar interference compromises public safety and
24 needs to be given the serious attention it deserves in

1 the final plan in order to eliminate unacceptable
2 safety risks.

3 The Alliance respectfully requests that all of
4 these issues be thoroughly addressed in the final
5 ocean management plan to ensure that Nantucket Sound
6 and the public that depends on these waters are
7 protected. Thank you.

8 MR. BABB-BROTT: Thank you. William Burke and
9 then Peter Kinney.

10 MR. BURKE: Good evening, and thank you for the
11 opportunity to provide comments on the Plan. I'm
12 William Burke. I work with Cape Cod Cooperative
13 extension in Barnstable County. And in that role, I
14 also serve as the administrative coordinator for the
15 Southeastern Massachusetts Office Coastal Center.

16 I simply came tonight to present you with a
17 second copy of the presentation that was given to you
18 in Boston by Dr. Joe Buttner. And the reason for that
19 my being here is wanting to reinforce the fact that
20 this letter that was provided to you is, in fact, from
21 the entire Massachusetts Aquaculture Industry.

22 And I wanted to point out that Massachusetts is
23 now the seventh largest producer of aquacultured
24 shellfish in the United States. In fact, Senator

1 O'Leary and our legislative delegation of Cape Cod, in
2 Cape Cod, we've seen that industry grow by 50 percent
3 since 1998. The production is up by 165 percent since
4 1998.

5 Near shore area for aquacultures are going to
6 become less and less available. And we know the
7 futures is going to be off shore, and we simply want
8 to make sure that our industry is going to be part of
9 the planning of off-shore development of aquaculture.
10 We suggest that the Plan recommend that there be, A,
11 an aquaculture subcommittee as this planning process
12 develops, so that industry members, people like
13 myself, extension, people that are doing aquaculture
14 research and the academics can be part of that
15 planning process.

16 So I simply provide to you a document, again,
17 and also submit information about CMASS and what we've
18 been doing in the last year.

19 Thank you very much. Thank you for your hard
20 work, guys.

21 MR. BABB-BROTT: Thank you. Peter Kenny and
22 then Beth Carol.

23 MR. KENNY: Good evening my name is Peter Kenny.
24 I was going to start of by saying thank you for the

1 opportunity to speak, but I'm an American Citizen, and
2 it's my right.

3 I was thinking of thanking you for the work you
4 put into this, but when I completed my apprentice
5 training as a carpenter, cabinetmaker, which I'm
6 liable to rant, but when you had your own job, you
7 always said thank you. That's what they're suppose to
8 do. It's their job. You did your good job and it's a
9 very comprehensive report. However the report has
10 some problems.

11 In my overview of it, is that we're proposing a
12 gradual construction of the Massachusetts coastal
13 areas that we all cherish so much.

14 I'm curious as to why we're told we're expected
15 to accept that off-shore wind is only possible in
16 waters five to 30 meters deep. Blue Age Europe has
17 two facilities in operation right now in test. One is
18 at 300 feet and can survive a category four
19 Mediterranean hurricane, twice; once in transit, and
20 once in operation.

21 Yesterday Blue Age USA applied formally to the
22 US Corps of Engineer for test tidals in 165 feet.
23 That's nearly double 30 meters.

24 If you're going to make statements about

1 technology, get it right. Get correct information.
2 You've just heard from a recent visit to China about
3 floating turbine technology or a 50 turbine deep water
4 facility now off the coast of Shanghai.

5 Get it right. If we know this, why don't you?
6 I'm pleased to hear that there is going to be an
7 interface between the Commonwealth and regional
8 planning agencies. We here on the Cape have a very
9 bitter experience with that, because we witnessed the
10 Energy Facility Siting Board simply running
11 steamroller over our regional planning agency, and
12 over the towns of Barnstable and Yarmouth.

13 Local permits don't apply, aren't needed, won't
14 be allowed. Regional planning doesn't apply, won't be
15 needed, won't be considered. And yet, we're suppose
16 to believe that this document is going to change that.

17 This document does not resolve the Energy
18 Facility Siting Board, so nothing has changed, and
19 this is an empty assurance, unless we see some teeth
20 in this. And there are no teeth.

21 We're told that no more than ten wind turbines
22 would be allowed. We're not told how big they'll be.
23 Get it right. Find out for example, the smart men on
24 the off-shore wind right now is going to develop wind

1 turbines, five, six and seven megawatts in load.
2 Seven megawatts is more than double the turbines that
3 Cape Wind says that they will be using.

4 These things stand close to 600 feet tall. The
5 sweep is almost 10,000 square feet. If you're sitting
6 in the middle of a soccer field, 110 yards long plus
7 two ten yard end zones, the blades would sweep past
8 either end zone.

9 So how big of a turbine that you're going to
10 allow? One, two, five, ten? There is nothing in here
11 about coordination with other agencies who might have
12 concern, such as the FHA, such as the Coast Guard.

13 Don't take this as a personal front. But I kind
14 of expect you to do the job. And part of the job
15 description is get it right. Get current information.
16 Try to get a handle on where various industries are
17 headed in the research and development, so that as you
18 determine you may want to permit certain industries
19 and their products to reside in Massachusetts' coastal
20 waters, you have an idea of what they're going to be
21 doing; what they're going to be supplying; what
22 they're going to be installing and operating.

23 I don't see that. I don't see it anywhere. I
24 see old, outdated inaccurate information.

1 The history of the Audubon Society was
2 interesting. The Massachusetts Audubon in our
3 independence refers to a chapter, but it was the
4 beginning of the National Audubon. A woman in Boston
5 was horrified by her swell neighbors who were
6 festooning themselves with plumage from extinct birds.

7 So she attempted to pass a law to protect
8 endangered species. The law was passed and it was
9 overturned by the courts. So in collaboration with a
10 famous American president named Woodrow Wilson, she
11 crafted the Migratory Bird Act as a treaty. Treaty
12 supersedes American law.

13 There is a criminal penalty for violating it. A
14 strict criminal penalty. It's a strict liability law.
15 Is not referenced in this act. It's not referenced in
16 your rules.

17 So I guess in the one section, we're a
18 Commonwealth, common I guess that's all of us, says
19 that the rules will, in fact, recognize laws and be
20 compatible and consistent with existing law. I guess
21 we have to wonder where only the laws that are
22 mentioned will be the ones that are compatible and
23 consist with.

24 Because in 2005, Massachusetts Audubon sent a

1 letter to Federal review authorities pointing out that
2 a lot more work is needed. A lot more data is needed
3 in the Cape Wind farms and over 6,600 birds can get
4 killed. Sounds to me like a pretty good violation, a
5 strict liability. A letter was signed by the one of
6 the Commission. But since he's reversed his position.
7 I don't know how, I don't know why. I don't have any
8 data from that. But I'm a little troubled by the line
9 I see, the direction in which the abuse of
10 environmental protection is going to Massachusetts in
11 the name of what? In the name of what?

12 Iffy wind technology at five to 30 meters? The
13 world's largest turbine manufacturer says deep water
14 is the only place that you're ever going to see money
15 in that business. You're not seeing money in that
16 business.

17 I submit that you have a really good framework.
18 A really good framework. The framework recognizes
19 there are issues currently, and there will be even
20 more and more test issues in the future. But you
21 don't have the answers. You have agencies, you have
22 staffs, you have budgets, you had 18 months.

23 We need more answers. We need constant
24 assurances that the State, the Commonwealth, will obey

1 the law. That local towns won't be told, To hell with
2 the permit and review process; that private developers
3 will not be able to swindle the political process to
4 their own advantage.

5 We need accountability. We need rules, we need
6 regulations, and we need better information. Quite
7 frankly, I would think that our regulators are better
8 than that. Much better than that. Thank you.

9 (Applause)

10 MR. BABB-BROTT: Thank you. Glen Motley with
11 Cliff Carroll.

12 MR. MOTLEY: Thank you for the opportunity to
13 speak to you tonight. My mother also gave me a
14 lesson. She asked me to be nice to people tonight.
15 After Peter, that should be easy.

16 A couple of things, and I'll submit my written
17 comments in detail, but this is a pretty sad day for
18 Cape Cod. Several years ago, excuse me, the mic, the
19 mic this is kind of bugging me a little bit.

20 A couple of years ago, I met at the office of
21 Senator O'Leary, you were pretty much running the
22 meeting. In that meeting, Senator, we asked you what
23 small scale in total meant. I asked you about the
24 heights. The heights on these wind turbines now are

1 going beyond 440, 500 feet.

2 We have a draft here similar to the DIS process
3 where they're going to present a plan, and we don't
4 get to comment on the final plan. You only get to
5 comment after you've had our comments. We have been
6 making comments.

7 And you have about -- you mentioned in your
8 letter here, Ian Bowles, that this is the
9 state-of-the-art of Ocean planning. If that's the
10 case, we're in big trouble.

11 It says it's the best available science of the
12 firsthand knowledge of the stakeholders. I don't know
13 what stakeholders you're talking to, we've had about
14 125 meetings. You never once done one with the
15 airport. The 400,000 flights a year that Audra Parker
16 spoke about are going to come in the exact same flight
17 path that your area is.

18 The Department of Defense on the Cape Cod
19 project with that 25-mile line, they ban basically
20 turbines within that area. That's their safe setback.
21 Three quarters of the south shore of Cape Cod is in
22 that area. Have you even spoken to the Department of
23 Defense?

24 You haven't spoken to the fishermen; you heard

1 tonight you haven't spoken to the trade groups.
2 You're going to destroy the hearts and sole of what
3 Cape Cod is. Our economic income engine, which is
4 tourism.

5 You talk about putting in these projects as
6 close as 1800 feet or one third of one nautical mile
7 in your documents.

8 The public not only deserves to have their
9 comments looked at in the true science you dealt with,
10 not the true science being driven by the new royal
11 which is basically big wind. What needs to happen is
12 we need to see your final draft before it becomes the
13 final. We don't want to see the results of what your
14 private meetings are going to consist of.

15 If Mr. Clark here, who changed his mind in the
16 middle of a Federal process during our arguments and
17 fights to stop Cape Wind, the State has chosen to say
18 Well, we can't do anything, that's in Federal waters.
19 And now, we have more on the other side saying Well,
20 we're not going to pay attention to what's going on in
21 the Federal waters because this is the State's water.

22 Well, the fish swim across those lines. The
23 fishermen cross that State-Federal line. The fog
24 travels those lines; the commuter boats travel them;

1 the 400,000 flights travel that space in the air.

2 In addition to that, I think it's a disgrace
3 that you also ignored the tribal issues that's taking
4 place on the Federal side of that water line with the
5 Wampanoags Indian Tribe out on Martha's Vineyard and
6 here in Mashpee. It's one of the biggest holdups in
7 the Cape Wind project. The Mass. Historic is part of
8 the holdup. They're the ones that are trying to
9 enforce the Federal laws and they're right to protect
10 them.

11 You have another state group on the
12 Massachusetts' side, on the Federal waters, ignoring
13 what's taking place with their own Mass. Historic
14 Agency. And again they're ignoring the Massachusetts
15 Bird Treaty Act. But I can see why that's happening.

16 Thank you very much for your time. I'll put my
17 comments in writing. I hope this isn't the last time
18 we're able to have comments. If you put in a final
19 draft, we should have the right to comment on it. We
20 can't comment on what we can't see. And obviously
21 we're all ready in the see no evil, speak no evil and
22 hear to evil. Nothing of doing with this permanent.
23 Thank you very much.

24 (Applause)

1 MR. BABB-BROTT: Thank you. Cliff Carroll?

2 MR. CARROLL: That's me.

3 MR. BABB-BROTT: Cliff, I apologize. David
4 Moriarty, and Barbara Durkin on deck.

5 MR. MORIARTY: Good evening, Senator, the Board,
6 thank you for having me. I appreciate the opportunity
7 to let you know how I feel. I'm here representing me
8 tonight. I'm a concerned citizen. A life-long
9 resident of Cape Cod, Massachusetts. The Sound out
10 there has been a providing force sustaining life for
11 me for 47 years. You know, it kept me alive. Kept a
12 lot of my family members alive for hundreds of years.

13 You know, what we're dealing with, we're dealing
14 with, you know, the Massachusetts coastlines and
15 providing work sustainable. It's the greatest,
16 greenest ecosystem on the planet earth, just the way
17 it is. It's perfect. Everyone in this room knows
18 that it's perfect the way it is, and that we shouldn't
19 be even touching it. We shouldn't be doing anything
20 to it. Everyone sitting in this room tonight knows
21 that.

22 (Applause)

23 MR. MORIARTY: And leave it alone. Like I said,
24 I've lived here my entire life. All my friends make a

1 living out there every day. I never hear anybody talk
2 about how they would be compensated if they were
3 adversely affected by some of these projects.

4 No one ever talks about the citizens. No one
5 ever talks about the Cape and Islanders who have been
6 living here for centuries.

7 Every meeting I go to, I don't hear anything
8 about the citizens. And I'm here to speak out for the
9 citizens tonight. I hope -- I hope the people out
10 there in the Cape and Islands are listening tonight
11 somehow, because they need to hear this message.
12 Because if you don't protect your community, nobody is
13 going to protect it for you. It's your job, and it's
14 your job to let these people know how to protect your
15 community, and what is best for you.

16 And you're competing with hundreds of years of
17 perfect, majestic poetry keeping us all alive. I hope
18 you understand that's what you're doing when you're
19 drafting this plan, because our lives depend on what
20 you can do.

21 If the Sound has been providing and sustaining
22 life for all Cape and Islanders for hundreds of years
23 like clockwork, year after year, summer after summer,
24 generation after generation has depended on the Cape

1 Cod and the Massachusetts coastline for their
2 survival.

3 This isn't about a community project. This
4 isn't about helping the guy make a couple of bucks.
5 It's about hundreds of thousands of people who have
6 been living and surviving here, and I want you to know
7 that we're here and we're connected now.

8 And I hope you take into consideration when you
9 go back to the table, there is no hurry here. There
10 is no hurry at all. You drafted the bill. We can
11 draft another bill. We can slow this right down.
12 There is no hurry.

13 So I'm sorry if your boss has been giving you a
14 hard time. But if we can get some other people
15 elected, maybe we can slow the process down a little
16 and have a little sanity, bring some sanity back into
17 the process. There is no waste, there is no hurry. I
18 hope you got the message.

19 (Applause)

20 MR. BABB-BROTT: Thank you. Barbara Durkin, and
21 that puts Maggy Geist on deck.

22 MS. DURKIN: Thank you for this opportunity. I
23 appreciate the work that's gone into the Plan. I'm
24 concerned that we are circular again, going back to

1 the Energy Facilities Siting Board by the Plan with
2 final decision making. If there is an objection to
3 the certain use, umm, even while it might be allowed
4 by the Plan, where does the buck stop?

5 We've all ready done this stand. I'm most
6 concerned about public safety that I truly believe is
7 threatened by the Cape Wind project. It's
8 unconscionable to me that the FAA has issued a
9 presumed hazard determination on the Cape Wind
10 Project. All three airports with 400,000 flights are
11 objecting to the Cape Wind proposal on the basis of
12 the lethal hazard that it proposes.

13 The Steamship Authority, the High-Line Cruises.
14 You have overwhelming evidence in front of you with
15 Cape Wind, and as has the Patrick administration, umm,
16 and we're still discussing Cape Wind. And that really
17 blows my mind that our own State would endanger its
18 citizens, up to three million passengers travelling
19 annually.

20 I have concerns about the consideration that
21 global warming as being the driver here; and there is
22 an assumption being made that wind energy is going to
23 reduce our confluent emissions. Wind energy, of
24 course, requires back up. Wind energy has not, in the

1 world, ever been demonstrated to a reduced harmful
2 emissions.

3 And in fact, wind energy is so unreliable, that
4 I have a document here from First Wind -- actually
5 it's from Nixon Peabody, that requests nondisclosure
6 regarding the Clipper Liberty Wind Turbines. Now,
7 this organization has just received \$150 million of
8 our money. The product doesn't work.

9 And so there is a nondisclosure request, and I
10 think that that is, as an advisor, First Wind, Paul
11 Gaynor, to your committee. I'm very concerned that
12 the public is not being made aware of things like this
13 3.6 megawatt wind turbine by GE that's discontinued.

14 Seventeen agencies had been reviewing for over a
15 number of years the effects of radar interference,
16 costs, historic adverse impacts on -- on very valuable
17 national historic landmarks. It doesn't exist. It's
18 a phantom project we're paying for this. And that
19 infuriates me. That it's -- it's a charade.

20 We're talking a phantom project. For years the
21 people who are in this room have been here, time and
22 time again, Cape Cod Community College, have been
23 going through all of these efforts to express the
24 concerns that we have. And it does seem like it's

1 hear no evil, see no evil, speak no evil. Does appear
2 a lot.

3 Umm, I am not saying you, I'm just saying
4 generally the State. When I say "you," I don't mean
5 you as individuals.

6 With reference to Mr. Clark, a couple of
7 comments have been made to relative to Mass. Audubon
8 and their comments that was provided on the Draft
9 Environmental Impact Statement, Federal in 2005,
10 signed by Laura Johnson. And that was up to 6,600
11 birds per year killed by Cape Wind in violation of the
12 Migratory Bird Treaty Act.

13 And I am concerned also that the Migratory Bird
14 Treaty Act is not mentioned in the Draft Plan. I
15 think that that is just unacceptable. It's a little
16 bit too convenient for developers. I think that
17 you're coddling developers -- again, not you, the
18 State -- as opposed to the citizens who are paying
19 taxes and paying for all of this.

20 As the Energy Facility Siting Board making a
21 determination that Cape Wind would produce reliable
22 energy, not even perfect state wind energy is
23 reliable. Federal Energy Regulatory Commission in
24 fact, DOE has come back and said that \$3.9 billion

1 will be required from us. We're going to pay for
2 that, for the grid upgrade, for ISO New England.

3 Now, I don't know how many people in this room
4 know that the \$1.2 billion cost of the Cape Wind stand
5 on project that we'll be required to fund 77 percent
6 of. That there is a \$3.9 billion add-on behind that.

7 And as far as the reliability is concerned, I
8 want everyone to take a look at this please, at will,
9 at the headlines that Britain, that wind energy is
10 linking blame for causing fuel poverty for up to
11 nine million people. They've had blackouts. They've
12 already had three blackouts. And they're attributing
13 this to wind energy.

14 This isn't -- this isn't some tabloid. This is
15 the **British News**. And they're saying that, not the
16 REF, that's Renewable Energy Foundation think tank,
17 warns that as many as nine million people could be
18 plunged into fuel poverty. The find that they're
19 spending more than ten percent of their income on
20 energy bills.

21 Now, this report criticizes the minister for
22 focusing too heavily on untried renewable energy
23 resources, such as wind and tidal, rather than making
24 sure to secure a new power generation is in place. I

1 guess my point is facts, so it's stubborn to say.

2 If we're looking at the cost \$3 billion behind
3 it, the 77 percent Beacon Hill Institute says it will
4 be required to pay in public subsidies, then we have
5 twice the cost of energy as determined by, not only
6 the MMS, and affirmed by the EPA, Cape Wind is not
7 economically viable. So tell me how that's a fair
8 return to the nation to the use of our resource.

9 But beyond that, there is operation and
10 maintenance, and bonding, transmission costs. So what
11 we're looking at is a base net of two times the
12 present cost of energy. Beyond that, \$3.9 billion.
13 Beyond that, whatever adverse impact to marine trades,
14 13 million, Mass. Fishermen's Partnership that the
15 University of Rhode Island came up with. That's one
16 week per year of loss.

17 And it was the recreational MMTA, \$1.7 billion.
18 So every time you look at the costs, you have to
19 consider what you're losing to. I'm not -- I'm not
20 certain what the annual loss that Beacon Hill
21 Institute's designation for tourism is; but place the
22 price of energy plus 3.9 billion to reach a point of
23 great instability with blackouts as demonstrated, is
24 going right on now. Is going on now in Britain.

1 that our understanding is that the data and the maps
2 that were compiled from the data, expressed what we
3 know about the state of our current resources in our
4 coastal waters.

5 And it occurs to me that over the years, many of
6 our resources have been degraded: Eelgrass beds and
7 shellfish beds come to mind. And so I think that it
8 would be good idea if there are data available to
9 include some historic data in the Ocean Management
10 Plan.

11 And if you think about it, this only makes
12 sense, because going forward for absolute more
13 resources. And how will we continue to upgrade the
14 Plan? Where will our stopping point be for what we
15 call an area that's useful for such-and-such
16 resources?

17 And then of course going forward, it become even
18 more apparent as David Dow mentioned earlier with
19 climate change what we're going to be seeing with
20 distribution and abundance of different species moving
21 around.

22 So it's going to be really a challenge for the
23 Ocean Management Plan for these to be very adaptive.

24 The second issue I would like to bring up is

1 something that was we brought up earlier this evening,
2 and that is this new level protection for special,
3 sensitive or unique resources in multi-use areas.

4 We are concerned, as have other speakers tonight
5 expressed concern, that this above mapification may,
6 in fact, result in a lower level of protection,
7 instead of the recommendation that certain areas just
8 be avoided.

9 The Management Plan, the Draft will go from a
10 potential for degradation of resources if it's
11 determined that there is no practicable alternative,
12 how would the determination be made? These are
13 questions that need to be addressed in the final plan.
14 How would the determination be made that there is no
15 practicable alternative? Who is going to undertake
16 the analysis? What's the definition of a practicable
17 alternative? And will there be a cost benefit
18 analysis?

19 The next issue I want to address is, how the
20 Plan really gets implemented, going forward. There
21 are numerous statements in the Plan that development
22 is going to be directed away from critical resource
23 areas. And I could quote those, there are many in my
24 comment letter.

1 And in fact, the compatibility assessment that
2 those of you in Chapter 3 detailed in Appendix 2, goes
3 into great detail about where resources are and what
4 areas are exclusions and constraints. And so it
5 appears to me reading this Draft Plan that, in fact,
6 we're really going to use the map areas to really
7 direct development.

8 And then as I read further, I came to understand
9 that instead of this, the results of the compatibility
10 assessment is really only used to exclude commercial
11 scale wind energies from all but a very short, a small
12 percentage in the area. They weren't used -- the
13 compatibility assessment was not used to excluded
14 other uses allowable in the Ocean Act.

15 And as I said as I mentioned before, what we
16 decided to do was to use this special protective layer
17 to ensure that the development gets directed
18 appropriately, and we are concerned about that.

19 We believe that the final plan should better
20 utilize the results of the compatibility index,
21 ecological valuation index, and the SSU map to provide
22 a clear protection of these most valuable resources.

23 The multi-use planning areas include many areas
24 that don't overlap SSU areas or commercial and

1 recreational fishing areas. And the final plan should
2 include mechanisms that unambiguously direct
3 development to the resource.

4 Finally, I would like to make a few comments
5 about the Siting and Scale of Renewable Energy
6 Facilities. I think there is a great deal of
7 information that needs to be developed if this plan
8 moves forward about the size and location and scenic
9 resources in determining how these plans will be
10 decided.

11 I would like to end by saying that, we all know,
12 our oceans are our most precious resource, and we
13 should take responsibility to ensure that there's
14 protection for future generations of all species. And
15 we believe that the development of this Draft Plan has
16 demonstrated that we have ample and robust data that
17 we can use to implement a Mass. State management plan
18 that would be truly protective of our resources.

19 In closing, we give our admiration, gratitude
20 for all of you who have worked so diligently on this
21 Plan. And thank you for the opportunity to comment.
22 And we look forward to the issuance of the final plan.

23 Thank you.

24 MR. BABB-BROTT: Thank you. Excuse me. A

1 "maybe" in Richard Elrick. Do we have --

2 UNIDENTIFIED SPEAKER: I think he left.

3 MR. BABB-BROTT: Okay. Thank you.

4 Another "maybe" then is Ron Zweig. Ron Zwieg?

5 (No response)

6 MR. BABB-BROTT: And Martha Powers is listed as
7 a "maybe."

8 MS. POWERS: I'm Martha Powers. I'm here as an
9 interested citizen and a statement, okay, and I
10 appreciate the opportunity to share some thoughts.
11 Because I am here as someone who loves this ocean. I
12 have loved it all my life. It's in my blood, as it is
13 for so many of us.

14 And, umm, I'm pleased that there is a plan, a
15 focus that this plan, the word "protection," it comes
16 up a lot. And I think that's really important and I
17 see that as your job. I don't know if that's what's
18 really happened in this plan. I'm afraid that it's
19 not. Because I don't -- I don't feel that the natural
20 resources are being protected.

21 As it's been stated with the wind farm, up to
22 6,500 birds would be killed by those towers. That's a
23 well-known fact. Somehow people accept that. I don't
24 accept that. That's an enormous slaughter; it's

1 against the law as people have mentioned. Many of
2 them are endangered and threatened species. We should
3 not allow this.

4 And it was mentioned at another meeting recently
5 that in the oil spill in Buzzards Bay, 450 birds were
6 killed. That was horrific. When we think about 450
7 birds being killed, imagine 6,000 birds being killed
8 or 5,000 birds being killed, year in and year out,
9 year after year, for 20 years of this project.

10 If the world knew we were be killing birds at
11 that rate they would be horrified. If we killed that
12 many birds in an oil spill, there would be horror
13 around the word. But somehow it's accepted as okay as
14 part of the wind farm plan. It's not okay with most
15 of us.

16 So I think your job as the protectors of natural
17 resources, you need to really look at the migration
18 that happens in this area. You need -- we're at the
19 biggest flyway on the East Coast, which I know you are
20 aware. And, and the International Migratory Treaty
21 Act is really central to your protection process.

22 It's been documented that in one night, 12
23 million birds were detected by radar over Cape Cod.
24 Now, that's probably not true anywhere else in the

1 world, I mean it may be, but it's a pretty high
2 number. Twelve million birds in one night.

3 This place is unique. It's not a place for wind
4 turbines. They don't belong here, and the whole place
5 needs to be protected from any kind of wind turbines
6 that will be killing birds in great masses. Because
7 if you wanted to kill birds, you could not find a
8 better place to do it. You couldn't kill them more
9 effectively than putting up towers all over this
10 Nantucket Sound.

11 So I really hope you take this idea to
12 protecting the resources as a serious part of your
13 mission here.

14 I wanted to read a statement from an article
15 that was published in the International Journal of
16 Avian Science in Great Britain, published years ago as
17 part of the abstract. It just says their summary is:
18 "We suggest abandonment of wind farms in zones with
19 dense migration. Turning off turbines on nights which
20 have adverse weather and high migration intensity to
21 and accidents make wind turbines more recognizable to
22 birds, including modification of the illumination to
23 intermittent, rather than continuous light."

24 Because we know that lights and we could have

1 all the turbines in this area with 400,000 airplanes
2 going to have to be lit up. Those lights attract
3 birds. They all migrate at night, by the way. If you
4 don't know that. Over 95 percent migrate at night.
5 All of the studies are during the day, so that
6 estimate of up to 6,500 is probably pretty low. And
7 those lights are going to attract more birds to the
8 turbines to be killed.

9 Those studies were done for the turbines for
10 Cape Wind. If turbines were at different heights, new
11 studies have to be done because birds fly at different
12 heights; for example, loons are probably not affected
13 by the Cape Wind turbines, but they would be affected
14 by shorter turbines. So that all has to be taken into
15 consideration.

16 And one other issue that I've never seen
17 mentioned anywhere is bats. Bats are critical to the
18 ecosystem. They're very threatened now. Their
19 populations are plunging alarmingly due to a virus.
20 Every species of bats that migrates in Massachusetts
21 flies over these ocean waters. No one has ever done
22 studies, and I'm told by bat experts because it costs
23 money. So are we going to throw the bats away to the
24 wind turbines?

1 We know that turbines kill bats. It kills them
2 by imploding their lungs rather than collision. It's
3 a very sick thing to be doing. We need to know what
4 we're doing. We have a long history of decimating
5 entire ecosystems by not paying attention to the
6 consequences of our behaviors.

7 I think Nantucket Sound needs to be protected.
8 All of Nantucket Sound needs to be an ocean sanctuary.
9 It's a very unique place. It's unique. There's
10 nowhere like it in the world. The animals that live
11 in it, the animals that fly over it. All the animals
12 and livelihood that depends on, it including humans,
13 treasure and cherish this place. And that's all
14 interconnected.

15 We cannot develop it without having serious
16 consequences on the entire ecosystem. And I don't
17 think most of that has been studied at all. So please
18 focus on the protection piece of this plan. I think
19 as Dave said, Start over. Go back and do that. Take
20 your time, take as long as it takes because we need to
21 protect this place, and we're the only ones that can
22 do it. We care about it the most. And we know it.
23 It's in our blood. It's in our every day experience.
24 Thank you.

1 (Applause)

2 MR. BABB-BROTT: Thank you. While we're
3 checking the list to see if there are any folks who --
4 nope, I have to say there is not.

5 Anyone spoken I see Ed, who has not signed up to
6 speak but would like to do, just raise your hand and
7 please come up. When you come up to the microphone
8 just introduce yourself.

9 MR. BARRON: I'm Ed Barron, I'm the president of
10 the Massachusetts Fishing Partnership. I'd like to
11 say good evening, Senator, Deerin and the CZM Ocean
12 Advisory Commission here tonight. I want to thank you
13 for the time and effort that we've put in on both the
14 Management Act, the Ocean Management Act and the Draft
15 Management Plan.

16 Deerin, especially has met with us as the
17 Fishing Partnership, and went out and did a fair
18 amount of outreach with fishing associations that I've
19 been involved with.

20 The Draft Plan is a good working document. It's
21 a solid foundation, but it does have some short
22 comings. I believe there are data gaps in there, and
23 I think they need to be addressed because we're very
24 concerned that as this goes forward, it becomes

1 codified, and I think we really need to get it right
2 the first time.

3 Some of the science I find somewhat troubling.
4 Use of ecological evaluation indexes. It's -- I'm not
5 quite sure it captures what we're trying to do here.
6 I think the science is outdated.

7 Public, we have public safety issues with radar
8 interference. I think that's been inadequately
9 addressed within these small projects.

10 We also believe that private provisions of this
11 draft management plan would be that our fishing
12 grounds be treated as special, sensitive areas of
13 concerns. All of these things we are going to address
14 in our written comments. So we look forward to
15 meeting with you and talking with you a little bit
16 more. We thank you.

17 MR. BABB-BROTT: Please?

18 MS. NORCROSS: Hi, I'm I Wendy Norcross. I'm
19 here for the Cape Cod Chamber of Commerce, I too want
20 to congratulate you all on this process for
21 establishing some groundwork for what we're going to
22 do with our oceans in the future.

23 We on Cape Cod have really been experiencing
24 life in the wild west as we figure out the Cape Wind

1 process. So that actually brought us as the Cape Cod
2 Chamber saying we need a plan. We can't just be
3 making this up on the fly and going by the seat of our
4 pants, and we reacting to the first person that plants
5 a stake in a site.

6 So we applaud the idea of a public process; we
7 applaud the work to date. We know it's complex. We
8 know it's multi-layered. It's a little daunting. And
9 I don't think it should be rushed. We support the
10 idea of renewable energy. We support the siting of it
11 even offshore. We just want to make sure that all
12 things are accounted for. Because there is not only
13 places for our energy siting, but also places to
14 maintain our serenity.

15 We need places of national importance. We need
16 marine monuments; we need marine sanctuaries; we need
17 places of serenity. So that need to be -- our open
18 space that we so carefully protect in our land, we
19 also need to protect in our ocean.

20 The speakers tonight have eluded the Cape's
21 economic imperative to protect its tourism trade. And
22 it's huge. And we're experiencing some distress right
23 now with constrained access over our bridges. And it
24 reminds how thin the line is that we walk everyday.

1 the end of their useful life.

2 And it's going to be absolutely hard and failed.
3 You will leave it when you're done as found. The
4 offshore continental shelf regulations at this point
5 are beginning to look as though they're going to get
6 really wobbly on that. They suggest that well you put
7 up a turbine, a shaft goes through the water.
8 Eventually the fish are going to make a habitat on
9 that part in the water, and they're already hinting
10 that you may not be able to take that tower away,
11 because you will be ruining a fish habitat. That kind
12 of decision has got to be set up and made concrete
13 before this gets finalized.

14 The other issue I would like to speak to in this
15 globalization business, in putting this project in the
16 water in Massachusetts today, can be bought out by
17 Madrid or Oslo or Copenhagen. And I think we have got
18 to know that any legal processes over those works have
19 got to be set up here in America.

20 In other words, the citizens of Cape Cod,
21 Massachusetts do not want to go to Madrid to discuss
22 the decibels of the helicopters for crew boats that
23 are servicing these facilities.

24 So I think beyond that, the more you are to do

1 to publicize the location of your website and this
2 draft, what would more effective this whole operation
3 is going to be.

4 I would like to ask how many people here tonight
5 have read this draft.

6 (Show of hands)

7 MR. McPHERSON: You got a good show on this.
8 Thank you very much.

9 MR. BABB-BROTT: Thank you. Is there anyone
10 else who has not spoken who would like to do so?

11 (No Response)

12 MR. BABB-BROTT: Thank you very much for coming
13 this evening. We look forward to receiving detailed
14 comments if you haven't provided them already. We
15 look forward to working more forward. Thanks, folks.

16
17
18 (Whereupon, the hearing concluded at 9:00 p.m.)
19
20
21
22
23
24

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

Barnstable, SS

C E R T I F I C A T I O N

I, Patricia L. Brennan, Professional Shorthand Reporter and Notary Public, in and for the Commonwealth of Massachusetts, certify that the foregoing document is a true and accurate transcript of the proceedings recorded by me on September 16, 2009 in the Town of West Barnstable, Massachusetts, and reduced to typewriting at my direction.

Patricia L. Brennan Date
Notary Public

My Commission Expires
July 30, 2010

\$	3	65 [1] - 2:21 69 [1] - 2:22	7	65:5 accounted [1] - 89:12 accurate [4] - 33:22, 34:5, 35:23, 93:9 accurately [3] - 27:24, 34:2, 37:15 Acknowledging [1] - 50:9 acknowledgment [1] - 38:3 Act [44] - 4:8, 7:6, 7:11, 7:15, 7:20, 7:21, 7:22, 8:6, 8:9, 8:10, 8:16, 8:21, 9:3, 14:23, 21:24, 22:1, 22:10, 23:5, 23:14, 23:15, 23:18, 24:21, 26:23, 27:5, 28:10, 28:18, 29:20, 29:21, 30:14, 40:5, 40:11, 40:20, 49:10, 55:20, 55:22, 63:11, 68:15, 74:12, 74:14, 80:14, 83:21, 87:14 act [2] - 40:8, 63:15 action [1] - 54:6 active [1] - 33:9 activities [2] - 34:19, 47:1 activity [5] - 12:9, 13:15, 33:7, 46:5, 48:11 adapt [1] - 47:4 adaptations [1] - 45:6 adaptive [2] - 48:1, 78:23 add [1] - 75:6 add-on [1] - 75:6 addition [5] - 8:5, 9:7, 55:8, 57:15, 68:2 additional [4] - 9:16, 34:10, 52:9, 54:2 Additionally [3] - 11:1, 49:12, 53:3 address [11] - 28:6, 28:22, 31:16, 38:17, 40:17, 44:24, 48:2, 49:19, 77:20, 79:19, 88:13 addressed [10] - 28:5, 28:14, 31:7, 38:2, 54:15, 54:18, 58:4, 79:13, 87:23, 88:9 addresses [2] - 5:14, 40:20 addressing [2] - 9:7, 21:1	adequate [1] - 40:9 adequately [3] - 22:7, 22:16, 54:18 adjacent [4] - 17:8, 25:2, 44:22, 55:3 adjustments [1] - 18:7 administration [2] - 28:17, 72:15 administrative [1] - 58:14 admiration [1] - 81:19 admitted [1] - 37:9 advance [1] - 20:3 advances [1] - 10:21 advancing [1] - 31:18 advantage [1] - 65:4 adverse [8] - 23:11, 30:5, 30:11, 30:15, 52:21, 73:16, 76:13, 84:20 adversely [4] - 30:1, 30:8, 57:16, 70:3 advice [1] - 19:2 advisor [1] - 73:10 Advisory [11] - 4:18, 8:14, 9:13, 16:12, 18:16, 18:19, 29:13, 47:18, 47:19, 87:12 advisory [2] - 18:16, 48:20 advocacy [1] - 20:23 AFFAIRS [1] - 1:3 Affairs [5] - 4:14, 22:12, 33:3, 44:2, 77:11 affect [3] - 23:11, 54:3, 55:19 affected [6] - 41:20, 57:13, 57:16, 70:3, 85:12, 85:13 affirmed [1] - 76:6 afraid [1] - 82:18 Age [3] - 42:5, 60:16, 60:21 agencies [9] - 16:2, 47:23, 48:24, 50:14, 61:8, 62:11, 64:21, 73:14, 77:12 Agency [2] - 19:8, 68:14 agency [4] - 14:6, 49:5, 53:10, 61:11 agenda [1] - 17:14 ago [4] - 40:5, 65:18, 65:20, 84:16 ahead [2] - 17:14, 20:17
\$150 [1] - 73:7	3 3 [2] - 76:2, 80:2 3.6 [1] - 73:13 3.9 [4] - 74:24, 75:6, 76:12, 76:22 30 [5] - 13:3, 60:16, 60:23, 64:12, 93:22 300 [1] - 60:18 31st [3] - 7:8, 9:20, 15:17 32 [1] - 2:10 35 [1] - 2:11 36 [1] - 2:12 37 [1] - 46:15 39 [1] - 2:13	71 [1] - 2:23 77 [3] - 2:24, 75:5, 76:3 7:00 [1] - 1:14 7:08 [1] - 4:2	8		
1	4 4 [1] - 2:3 40 [1] - 43:4 400,000 [5] - 57:12, 66:15, 68:1, 72:10, 85:1 41 [1] - 2:14 419 [1] - 34:2 43 [1] - 2:15 44-year [1] - 41:5 440 [1] - 66:1 450 [2] - 83:5, 83:6 47 [1] - 69:11 48 [1] - 2:16	82 [1] - 3:4 85 [1] - 10:10 87 [1] - 3:5 88 [1] - 3:6	9		
1,000 [2] - 37:2, 42:15 1.2 [1] - 75:4 1.7 [2] - 33:7, 76:17 10 [2] - 36:14, 55:23 10,000 [1] - 62:5 100 [1] - 33:10 110 [1] - 62:6 12 [1] - 83:22 1200 [1] - 33:4 125 [2] - 19:12, 66:14 13 [2] - 10:1, 76:14 14 [1] - 48:22 1500 [1] - 42:3 16 [2] - 1:10, 93:10 165 [2] - 59:3, 60:22 17 [2] - 2:5, 46:15 18 [3] - 2:6, 19:8, 64:22 1800 [1] - 67:6 18th [1] - 48:5 1960 [1] - 43:2 1998 [2] - 59:3, 59:4	5 5,000 [1] - 83:8 50 [2] - 59:2, 61:3 500 [1] - 66:1 51 [1] - 2:17 54 [1] - 2:18 58 [1] - 2:19 59 [1] - 2:20 5:00 [1] - 16:18	90 [2] - 3:7, 43:3 91 [1] - 27:4 95 [1] - 85:4 9:00 [1] - 92:18	A		
2	6 6 [1] - 2:4 6,000 [1] - 83:7 6,500 [2] - 82:22, 85:6 6,600 [4] - 30:21, 31:13, 64:3, 74:10 60 [1] - 5:11 600 [1] - 62:4 600,000 [1] - 52:2	abandonment [1] - 84:18 ability [2] - 36:1, 52:23 able [4] - 36:6, 65:3, 68:18, 91:10 absolute [2] - 24:4, 78:12 absolutely [1] - 91:2 abstract [1] - 84:17 abundance [1] - 78:20 abuse [1] - 64:9 academics [1] - 59:14 accept [3] - 60:15, 82:23, 82:24 accepted [1] - 83:13 access [1] - 89:23 accidents [1] - 84:21 accommodated [1] - 38:1 accomplishment [1] - 77:16 according [1] - 30:22 accordingly [1] - 23:15 accountability [1] -	abandonment [1] - 84:18 ability [2] - 36:1, 52:23 able [4] - 36:6, 65:3, 68:18, 91:10 absolute [2] - 24:4, 78:12 absolutely [1] - 91:2 abstract [1] - 84:17 abundance [1] - 78:20 abuse [1] - 64:9 academics [1] - 59:14 accept [3] - 60:15, 82:23, 82:24 accepted [1] - 83:13 access [1] - 89:23 accidents [1] - 84:21 accommodated [1] - 38:1 accomplishment [1] - 77:16 according [1] - 30:22 accordingly [1] - 23:15 accountability [1] -		
2 2 [1] - 80:2 20 [3] - 2:7, 40:5, 83:9 2004 [2] - 53:9, 53:21 2005 [3] - 24:22, 63:24, 74:9 2008 [4] - 4:8, 7:6, 46:13, 49:11 2009 [4] - 1:10, 7:8, 7:9, 93:11 2010 [2] - 44:9, 93:22 22 [1] - 46:1 22,000 [1] - 52:1 2240 [1] - 1:13 23 [2] - 42:7, 42:12 23rd [3] - 5:10, 16:18, 44:2 24 [1] - 41:12 25 [1] - 57:20 25-mile [1] - 66:19 26 [1] - 2:8 27% [1] - 24:22 27,000 [1] - 33:6 29 [1] - 2:9					

<p>aide [1] - 6:18 air [4] - 42:15, 57:7, 57:10, 68:1 aircraft [2] - 56:24, 57:9 airplanes [1] - 85:1 airport [1] - 66:15 airports [1] - 72:10 alarmingly [1] - 85:19 alike [2] - 24:15, 36:5 alive [3] - 69:11, 69:12, 70:17 Alliance [7] - 29:11, 31:3, 31:5, 31:9, 31:14, 54:12, 58:3 allocating [1] - 14:1 allow [4] - 15:1, 23:19, 62:10, 83:3 allowable [1] - 80:14 allowance [1] - 39:15 allowed [6] - 7:20, 7:23, 40:21, 61:14, 61:22, 72:3 allowing [3] - 33:1, 55:21, 56:15 allows [1] - 55:23 almost [1] - 62:5 alone [2] - 69:23, 77:16 alternate [1] - 42:4 alternative [7] - 22:24, 23:8, 43:18, 52:6, 79:11, 79:15, 79:17 alternatives [1] - 27:22 amazing [1] - 42:17 ameliorate [1] - 45:7 America [1] - 91:19 American [3] - 60:1, 63:10, 63:12 amount [2] - 77:18, 87:18 ample [1] - 81:16 analyses [1] - 21:11 analysis [6] - 10:17, 26:21, 45:4, 50:10, 79:16, 79:18 anchor [1] - 42:7 anchorage [1] - 34:24 AND [1] - 1:3 angling [1] - 46:8 animal [2] - 45:23, 46:22 animals [3] - 86:10, 86:11 annual [2] - 33:7, 76:20</p>	<p>annually [1] - 72:19 answers [2] - 64:21, 64:23 anticipating [1] - 14:21 Apart [1] - 38:17 apologize [3] - 20:3, 32:18, 69:3 apparent [1] - 78:18 appeal [1] - 56:12 appear [2] - 25:7, 74:1 Appendix [1] - 80:2 applaud [3] - 26:20, 89:6, 89:7 Applause [9] - 18:10, 43:19, 65:9, 68:24, 69:22, 71:19, 77:4, 87:1, 90:12 applied [2] - 13:20, 60:21 apply [5] - 23:2, 24:13, 52:22, 61:13, 61:14 applying [2] - 15:23, 47:1 Applying [1] - 15:24 appointed [1] - 18:15 Appointee [1] - 4:18 appreciate [7] - 25:6, 29:12, 36:21, 39:17, 69:6, 71:23, 82:10 appreciative [1] - 39:18 apprentice [1] - 60:4 approach [1] - 53:24 approaches [1] - 49:19 appropriate [3] - 21:22, 23:19, 25:10 appropriate-scale [2] - 21:22, 23:19 appropriately [2] - 37:14, 80:18 approval [2] - 8:16, 14:12 approved [1] - 44:9 Aquaculture [1] - 58:21 aquaculture [3] - 59:9, 59:11, 59:13 aquacultured [1] - 58:23 aquacultures [1] - 59:5 arbitrary [1] - 24:6 architect [1] - 8:13 area [24] - 9:23, 10:2, 10:4, 10:7, 10:9, 10:10, 10:23, 13:14,</p>	<p>27:13, 27:21, 35:21, 39:6, 48:12, 48:14, 54:3, 59:5, 66:17, 66:20, 66:22, 78:15, 80:12, 83:18, 85:1 Area [1] - 11:6 Areas [1] - 25:7 areas [55] - 9:23, 10:3, 10:5, 10:13, 10:14, 10:16, 10:18, 10:19, 10:22, 11:13, 11:18, 12:1, 12:12, 12:14, 13:3, 13:8, 13:9, 13:11, 13:21, 27:1, 27:18, 27:19, 27:20, 28:3, 34:3, 34:5, 34:6, 34:13, 34:17, 34:18, 36:2, 36:11, 36:14, 37:12, 37:15, 37:19, 44:3, 45:17, 45:23, 46:5, 47:2, 55:3, 60:13, 77:21, 79:3, 79:7, 79:23, 80:4, 80:6, 80:23, 80:24, 81:1, 88:12 arguments [1] - 67:16 arriving [1] - 26:13 art [1] - 66:9 Arthur [1] - 51:6 article [1] - 84:14 artificial [1] - 55:5 ARTS [1] - 1:12 aspects [1] - 29:16 assessed [1] - 50:1 assessment [3] - 80:1, 80:10, 80:13 assessments [2] - 13:7, 50:12 assets [2] - 30:5, 30:8 assimilated [1] - 22:6 Assistant [2] - 1:22, 4:21 assisting [1] - 16:5 associated [1] - 47:11 Association [7] - 32:21, 32:22, 33:8, 35:14, 37:4, 37:5, 77:9 association [3] - 33:9, 35:24, 36:8 associations [1] - 87:18 assumption [1] - 72:22 assurance [1] -</p>	<p>61:19 assurances [1] - 64:24 attempted [1] - 63:7 attending [1] - 8:15 attention [4] - 37:11, 57:24, 67:20, 86:5 attorney [1] - 20:21 attorney's [1] - 31:17 attract [2] - 85:2, 85:7 attributing [1] - 75:12 Audra [4] - 2:18, 54:10, 54:11, 66:15 Audubon [8] - 18:14, 30:22, 31:11, 63:1, 63:2, 63:4, 63:24, 74:7 authorities [1] - 64:1 authority [3] - 38:21, 46:7, 56:4 Authority [4] - 51:14, 51:18, 54:4, 72:13 available [9] - 5:15, 5:16, 31:20, 31:22, 48:12, 50:10, 59:6, 66:11, 78:8 avi [1] - 31:7 Avian [1] - 84:16 avian [3] - 31:7, 31:11, 31:15 avoid [3] - 12:1, 27:22, 53:1 avoided [1] - 79:8 aware [3] - 53:24, 73:12, 83:20</p>	<p>40:16, 41:1, 43:20, 48:17, 51:5, 54:9, 58:8, 59:21, 65:10, 69:1, 69:3, 71:20, 77:5, 81:24, 82:3, 82:6, 87:2, 88:17, 90:13, 92:9, 92:12 Babb-Brott [5] - 1:22, 2:3, 4:21, 20:6, 36:20 background [1] - 9:3 balancing [1] - 45:19 ban [1] - 66:19 banned [1] - 40:8 Barbara [3] - 2:23, 69:4, 71:20 barges [1] - 42:6 Barnstable [6] - 34:14, 56:11, 58:13, 61:12, 93:1, 93:11 BARNSTABLE [1] - 1:13 BARRON [1] - 87:9 Barron [2] - 3:5, 87:9 base [1] - 76:11 based [3] - 22:5, 45:9, 47:5 baseline [2] - 45:1, 47:11 bases [2] - 45:14, 47:9 basis [4] - 22:21, 33:20, 45:3, 72:11 bat [2] - 6:16, 85:22 bathymetry [1] - 12:24 bats [4] - 85:17, 85:20, 85:23, 86:1 Bats [1] - 85:17 Bay [12] - 10:7, 10:23, 13:9, 13:13, 13:17, 34:14, 48:20, 48:22, 50:21, 53:23, 57:22, 83:5 bays [2] - 37:14, 41:9 beach [2] - 8:4, 51:22 beaches [2] - 41:14, 41:17 Beacon [2] - 76:3, 76:20 bear [1] - 54:6 become [6] - 32:9, 52:5, 53:15, 59:6, 78:17, 90:24 becomes [2] - 67:12, 87:24 bed [1] - 42:7 Bedford [1] - 5:6 beds [2] - 78:6, 78:7</p>
B				
<p>BABB [34] - 4:4, 19:19, 26:3, 26:9, 29:4, 29:9, 31:23, 32:4, 32:16, 35:4, 35:7, 36:17, 39:21, 40:16, 41:1, 43:20, 48:17, 51:5, 54:9, 58:8, 59:21, 65:10, 69:1, 69:3, 71:20, 77:5, 81:24, 82:3, 82:6, 87:2, 88:17, 90:13, 92:9, 92:12 Babb [5] - 1:22, 2:3, 4:21, 20:6, 36:20 BABB-BROTT [34] - 4:4, 19:19, 26:3, 26:9, 29:4, 29:9, 31:23, 32:4, 32:16, 35:4, 35:7, 36:17, 39:21,</p>				

<p>begin [5] - 4:11, 6:12, 17:2, 17:21, 24:7</p> <p>beginning [2] - 63:4, 91:5</p> <p>begun [3] - 16:19, 43:2, 55:10</p> <p>behalf [5] - 4:23, 21:5, 26:15, 37:3, 48:19</p> <p>behaviors [1] - 86:6</p> <p>behind [2] - 75:6, 76:2</p> <p>belong [1] - 84:4</p> <p>below [1] - 42:23</p> <p>benefit [5] - 23:9, 24:18, 28:24, 77:15, 79:17</p> <p>benefits [4] - 48:3, 48:6, 48:14, 55:7</p> <p>best [4] - 12:20, 39:1, 66:11, 70:15</p> <p>Beth [1] - 59:22</p> <p>better [6] - 47:24, 65:6, 65:7, 65:8, 80:19, 84:8</p> <p>Better [1] - 42:10</p> <p>between [3] - 11:7, 13:2, 61:7</p> <p>beyond [4] - 9:20, 66:1, 76:9, 91:24</p> <p>Beyond [3] - 23:17, 76:12, 76:13</p> <p>big [8] - 36:10, 43:9, 46:12, 61:22, 62:9, 66:10, 67:11, 90:9</p> <p>biggest [2] - 68:6, 83:19</p> <p>bill [3] - 8:13, 71:10, 71:11</p> <p>Bill [3] - 32:18, 35:4, 35:6</p> <p>billion [8] - 33:7, 74:24, 75:4, 75:6, 76:2, 76:12, 76:17, 76:22</p> <p>bills [1] - 75:20</p> <p>Bird [5] - 29:20, 63:11, 68:15, 74:12, 74:13</p> <p>birds [22] - 30:15, 30:21, 31:2, 31:13, 63:6, 64:3, 74:11, 82:22, 83:5, 83:7, 83:8, 83:10, 83:12, 83:23, 84:2, 84:6, 84:7, 84:22, 85:3, 85:7, 85:11</p> <p>bit [6] - 4:5, 10:11, 10:20, 65:19, 74:16,</p>	<p>88:15</p> <p>bitter [1] - 61:9</p> <p>blackouts [3] - 75:11, 75:12, 76:23</p> <p>blades [3] - 42:24, 56:23, 62:7</p> <p>blame [1] - 75:10</p> <p>blockaded [1] - 54:1</p> <p>blood [2] - 82:12, 86:23</p> <p>blows [1] - 72:17</p> <p>Blue [3] - 42:5, 60:16, 60:21</p> <p>Board [7] - 56:9, 56:19, 61:10, 61:18, 69:5, 72:1, 74:20</p> <p>board [1] - 34:20</p> <p>boat [1] - 36:1</p> <p>boaters [7] - 33:14, 34:18, 34:24, 35:15, 36:1, 36:5, 37:16</p> <p>boating [5] - 31:19, 34:6, 34:17, 37:3, 37:9</p> <p>Boating [1] - 35:14</p> <p>boats [3] - 51:21, 67:24, 91:22</p> <p>Bob [3] - 29:5, 32:16, 32:20</p> <p>body [3] - 16:13, 55:16, 77:17</p> <p>bolts [1] - 14:13</p> <p>bonded [1] - 90:21</p> <p>bonding [1] - 76:10</p> <p>boss [2] - 4:23, 71:13</p> <p>Boston [5] - 5:5, 13:8, 13:15, 58:18, 63:4</p> <p>bought [1] - 91:16</p> <p>boundaries [2] - 14:7, 52:8</p> <p>Bowles [3] - 4:23, 19:3, 66:8</p> <p>Brennan [2] - 93:6, 93:20</p> <p>brevity [1] - 5:22</p> <p>bridges [1] - 89:23</p> <p>brief [2] - 9:3, 17:4</p> <p>briefly [2] - 7:5, 40:18</p> <p>bring [2] - 71:16, 78:24</p> <p>bringing [1] - 45:23</p> <p>brings [1] - 77:5</p> <p>Britain [3] - 75:9, 76:24, 84:16</p> <p>British [1] - 75:15</p> <p>Brittany [1] - 43:3</p> <p>BROTT [34] - 4:4,</p>	<p>19:19, 26:3, 26:9, 29:4, 29:9, 31:23, 32:4, 32:16, 35:4, 35:7, 36:17, 39:21, 40:16, 41:1, 43:20, 48:17, 51:5, 54:9, 58:8, 59:21, 65:10, 69:1, 69:3, 71:20, 77:5, 81:24, 82:3, 82:6, 87:2, 88:17, 90:13, 92:9, 92:12</p> <p>Brott [5] - 1:22, 2:3, 4:21, 20:6, 36:20</p> <p>brought [3] - 53:22, 79:1, 89:1</p> <p>Bruce [2] - 3:7, 90:16</p> <p>buck [1] - 72:4</p> <p>bucks [1] - 71:4</p> <p>budgets [1] - 64:22</p> <p>buffer [2] - 38:19, 39:7</p> <p>bugging [1] - 65:19</p> <p>built [1] - 21:15</p> <p>bullets [1] - 16:9</p> <p>buoys [1] - 42:22</p> <p>burden [2] - 22:19, 22:20</p> <p>bureaucracies [1] - 19:10</p> <p>bureaucracy [1] - 15:21</p> <p>BURKE [1] - 58:10</p> <p>Burke [4] - 2:19, 54:10, 58:8, 58:12</p> <p>business [3] - 64:15, 64:16, 91:15</p> <p>businesses [2] - 33:5, 33:11</p> <p>Butcher [5] - 2:10, 29:8, 32:16, 32:21, 37:10</p> <p>BUTCHER [2] - 29:8, 32:20</p> <p>Butcher's [1] - 35:18</p> <p>Buttner [1] - 58:18</p> <p>Buzzards [5] - 10:7, 13:9, 13:13, 13:17, 83:5</p>	<p>56:18, 86:15</p> <p>cap [1] - 24:4</p> <p>Cape [78] - 4:20, 9:24, 10:23, 17:9, 20:19, 23:21, 26:12, 28:10, 29:23, 30:19, 31:12, 32:21, 33:8, 33:11, 34:13, 35:17, 37:5, 37:12, 40:4, 41:8, 41:15, 41:22, 42:20, 43:10, 43:23, 44:12, 44:14, 48:5, 48:7, 48:11, 48:19, 50:21, 52:4, 56:3, 56:6, 56:9, 56:10, 56:13, 57:6, 58:12, 59:1, 59:2, 61:8, 62:3, 64:3, 65:18, 66:18, 66:21, 67:3, 67:17, 68:7, 69:9, 70:5, 70:10, 70:22, 70:24, 72:7, 72:9, 72:11, 72:15, 72:16, 73:22, 74:11, 74:21, 75:4, 76:6, 77:9, 83:23, 85:10, 85:13, 88:19, 88:23, 88:24, 89:1, 90:1, 90:10, 90:21, 91:20</p> <p>CAPE [1] - 1:12</p> <p>Cape's [1] - 89:20</p> <p>Captain [1] - 51:12</p> <p>captain [1] - 51:13</p> <p>captures [1] - 88:5</p> <p>card [2] - 6:2, 6:3</p> <p>care [1] - 86:22</p> <p>careful [2] - 22:9, 43:16</p> <p>carefully [2] - 89:18, 90:8</p> <p>Carol [1] - 59:22</p> <p>carpenter [1] - 60:5</p> <p>CARROLL [1] - 69:2</p> <p>Carroll [2] - 65:11, 69:1</p> <p>cars [1] - 52:2</p> <p>case [3] - 37:23, 56:6, 66:10</p> <p>cases [2] - 17:22, 18:7</p> <p>categories [1] - 49:13</p> <p>category [1] - 60:18</p> <p>caused [1] - 56:22</p> <p>causes [1] - 56:23</p> <p>causing [1] - 75:10</p> <p>caution [1] - 25:8</p> <p>CCBC [2] - 49:1, 50:22</p> <p>CENTER [1] - 1:12</p>	<p>Center [2] - 48:21, 58:15</p> <p>central [1] - 83:21</p> <p>centuries [1] - 70:6</p> <p>certain [9] - 11:24, 14:1, 38:4, 53:7, 53:18, 62:18, 72:3, 76:20, 79:7</p> <p>certified [1] - 46:12</p> <p>certify [1] - 93:8</p> <p>challenge [1] - 78:22</p> <p>Chamber [2] - 88:19, 89:2</p> <p>Chamber's [1] - 90:10</p> <p>chance [2] - 26:5, 90:15</p> <p>change [5] - 44:22, 52:22, 53:16, 61:16, 78:19</p> <p>changed [4] - 20:14, 40:11, 61:18, 67:15</p> <p>changes [6] - 16:20, 27:1, 27:3, 27:8, 27:10, 47:13</p> <p>Chapter [3] - 27:4, 47:4, 80:2</p> <p>chapter [1] - 63:3</p> <p>characterize [1] - 27:24</p> <p>charade [1] - 73:19</p> <p>charge [2] - 4:15, 33:24</p> <p>charged [1] - 33:18</p> <p>Charles [1] - 51:12</p> <p>chart [1] - 37:22</p> <p>Chart [1] - 34:2</p> <p>cheaper [1] - 43:11</p> <p>checking [1] - 87:3</p> <p>cherish [2] - 60:13, 86:13</p> <p>Chief [1] - 26:12</p> <p>children [1] - 41:7</p> <p>China [2] - 31:19, 61:2</p> <p>Chinese [1] - 31:20</p> <p>choices [1] - 17:23</p> <p>chosen [1] - 67:17</p> <p>circular [1] - 71:24</p> <p>circulation [1] - 20:1</p> <p>citizen [2] - 69:8, 82:9</p> <p>Citizen [1] - 60:1</p> <p>citizens [7] - 54:6, 70:4, 70:8, 70:9, 72:18, 74:18, 91:20</p> <p>city [1] - 41:11</p> <p>City's [1] - 42:18</p> <p>clarify [1] - 28:23</p> <p>Clark [8] - 2:6, 4:17,</p>
C				
<p>cabinetmaker [1] - 60:5</p> <p>cable [1] - 11:24</p> <p>cables [1] - 8:3</p> <p>canal [1] - 42:21</p> <p>cancellations [1] - 53:1</p> <p>cannot [3] - 51:21,</p>				

<p>18:12, 21:9, 31:11, 31:12, 67:15, 74:6 CLARK [1] - 18:11 Clark's [1] - 31:15 class [1] - 13:14 classification [1] - 39:2 clean [1] - 24:8 clear [4] - 39:23, 41:19, 55:11, 80:22 clearly [5] - 24:12, 34:9, 34:18, 43:7, 49:16 CLF [1] - 20:22 CLF's [2] - 21:5, 31:17 Cliff [3] - 65:11, 69:1, 69:3 climate [4] - 44:12, 44:22, 45:7, 78:19 Clipper [1] - 73:6 clockwork [2] - 42:14, 70:23 close [6] - 16:6, 42:3, 52:1, 55:24, 62:4, 67:6 closely [3] - 9:1, 11:3, 33:9 closest [1] - 24:24 closing [1] - 81:19 Club [4] - 43:23, 43:24, 46:9, 47:3 CMASS [1] - 59:17 co [1] - 49:14 co-principals [1] - 49:14 coast [2] - 46:13, 61:4 Coast [6] - 38:10, 52:18, 53:9, 57:2, 62:12, 83:19 coastal [7] - 33:17, 33:21, 45:5, 51:1, 60:12, 62:19, 78:4 Coastal [11] - 1:22, 1:23, 4:13, 4:19, 4:22, 8:19, 21:10, 44:5, 46:19, 48:21, 58:15 coastline [2] - 71:1, 90:3 coastlines [2] - 41:11, 69:14 Cod [43] - 9:24, 10:23, 20:19, 23:21, 26:12, 28:10, 32:21, 33:8, 33:11, 34:14, 35:17, 37:5, 37:13, 40:4, 42:20, 43:23, 44:12, 44:14, 48:7, 48:11, 48:20, 50:21,</p>	<p>52:4, 56:3, 56:9, 58:12, 59:1, 59:2, 65:18, 66:18, 66:21, 67:3, 69:9, 71:1, 73:22, 77:9, 83:23, 88:19, 88:23, 89:1, 90:1, 90:10, 91:20 COD [1] - 1:12 coddling [1] - 74:17 code [1] - 38:8 codified [1] - 88:1 collaboration [2] - 49:6, 63:9 colleagues [3] - 19:7, 19:15, 37:5 collected [1] - 28:19 collecting [1] - 28:22 COLLEGE [1] - 1:12 College [1] - 73:22 collision [1] - 86:2 combined [1] - 10:3 coming [6] - 4:10, 4:24, 15:11, 17:5, 18:9, 92:12 comings [1] - 87:22 commend [3] - 29:13, 35:13, 49:3 comment [25] - 5:9, 5:10, 5:20, 6:23, 17:2, 17:6, 19:21, 21:6, 29:12, 29:18, 31:17, 33:1, 36:21, 39:17, 40:1, 40:2, 40:17, 66:4, 66:5, 68:19, 68:20, 77:22, 79:24, 81:21 Comments [2] - 5:13, 16:17 comments [39] - 5:21, 5:24, 6:12, 16:19, 16:20, 16:21, 19:18, 21:9, 21:19, 25:22, 26:2, 26:14, 26:18, 29:2, 32:3, 32:6, 32:9, 32:12, 32:13, 35:19, 41:6, 43:24, 44:3, 47:23, 48:15, 49:12, 54:14, 58:11, 65:17, 66:5, 66:6, 67:9, 68:17, 68:18, 74:7, 74:8, 81:4, 88:14, 92:14 Commerce [1] - 88:19 commerce [2] - 53:19, 53:22 commercial [10] - 8:22, 9:1, 9:2, 11:20, 33:13, 38:6, 46:7, 53:19, 80:10, 80:24</p>	<p>commercially [1] - 31:20 commission [2] - 18:17, 18:21 Commission [26] - 4:18, 8:14, 16:12, 18:16, 18:19, 20:19, 26:12, 26:17, 26:18, 27:10, 28:10, 28:12, 28:21, 29:14, 29:16, 31:4, 31:6, 31:10, 31:14, 35:5, 35:11, 47:19, 64:6, 74:23, 87:12, 93:22 Commission's [2] - 26:15, 56:9 Commissioners [1] - 27:6 Commissions [1] - 56:3 Committee [1] - 26:16 committee [3] - 36:10, 48:6, 73:11 Committee's [1] - 26:24 common [2] - 52:21, 63:18 COMMONWEALTH [1] - 1:2 Commonwealth [8] - 19:8, 21:9, 25:4, 25:24, 61:7, 63:18, 64:24, 93:8 Commonwealth's [1] - 49:16 communities [8] - 24:6, 24:11, 24:14, 24:15, 25:3, 45:5, 55:18, 56:17 communities' [1] - 28:24 community [15] - 13:23, 14:17, 17:14, 24:3, 24:10, 24:17, 25:16, 48:2, 48:5, 48:13, 56:2, 56:8, 70:12, 70:15, 71:3 COMMUNITY [1] - 1:12 Community [2] - 14:3, 73:22 community's [1] - 17:24 commuter [1] - 67:24 companies [1] - 43:10 compatibility [5] - 50:12, 80:1, 80:9,</p>	<p>80:13, 80:20 compatible [2] - 63:20, 63:22 compensated [1] - 70:2 competing [2] - 17:20, 70:16 compiled [2] - 77:15, 78:2 complete [1] - 51:24 completed [2] - 60:4, 77:18 completely [3] - 54:20, 56:21, 57:21 complex [2] - 46:3, 89:7 compliance [1] - 31:16 Compliance [1] - 53:14 complications [1] - 38:15 compliment [1] - 21:9 comply [2] - 30:13, 53:8 component [1] - 9:6 composite [2] - 11:12, 11:17 Compound [1] - 30:4 comprehensive [3] - 21:13, 49:8, 60:9 COMPREHENSIVE [1] - 1:17 compressed [1] - 49:4 comprises [1] - 27:20 compromises [1] - 57:23 con [1] - 43:13 concept [2] - 22:18, 47:16 conceptual [1] - 47:14 concern [4] - 27:9, 36:8, 62:12, 79:5 concerned [11] - 27:21, 54:17, 69:8, 71:24, 72:6, 73:11, 74:13, 75:7, 79:4, 80:18, 87:24 Concerning [1] - 30:15 concerning [3] - 28:4, 28:16, 29:22 concerns [7] - 27:18, 35:18, 35:24, 72:20, 73:24, 77:21, 88:13 conclude [1] - 53:10</p>	<p>concluded [1] - 92:18 conclusion [2] - 16:16, 54:4 concrete [1] - 91:12 conditions [2] - 52:21, 53:21 conduct [1] - 47:10 conducted [1] - 21:12 confirmed [1] - 29:24 conflicts [1] - 50:4 confluent [1] - 72:23 congratulate [3] - 19:5, 77:10, 88:20 congratulated [1] - 44:6 Congressman [1] - 11:4 connected [1] - 71:7 consensus [1] - 48:4 consequences [2] - 86:6, 86:16 Conservation [2] - 20:18, 20:22 conservation [2] - 45:20, 46:1 consider [8] - 32:3, 40:12, 42:2, 45:22, 50:15, 50:23, 76:19, 90:3 considerable [1] - 53:11 consideration [7] - 13:4, 38:13, 38:16, 54:5, 71:8, 72:20, 85:15 considerations [4] - 13:19, 14:11, 55:6, 90:18 considered [4] - 35:22, 46:10, 53:7, 61:15 considering [1] - 48:15 consist [2] - 63:23, 67:14 consistent [3] - 8:17, 47:5, 63:20 consisting [1] - 23:7 consists [1] - 33:10 constant [3] - 42:9, 42:11, 64:23 constituencies [1] - 36:23 constituent [1] - 46:21 constrained [2] - 13:2, 89:23</p>
---	---	---	--	---

<p>constraint [1] - 55:5 constraints [4] - 12:24, 26:22, 49:10, 80:4 construction [2] - 13:5, 60:12 consultants [1] - 29:14 consumers [1] - 46:23 cont [1] - 3:1 contain [1] - 7:18 contemplated [2] - 27:11, 52:17 contextual [1] - 14:16 continental [2] - 44:19, 91:4 continue [2] - 49:7, 78:13 continued [3] - 9:11, 16:10, 16:11 continuous [1] - 84:23 contributed [1] - 77:13 contributions [1] - 51:2 control [3] - 56:14, 57:8, 57:10 Convened [1] - 4:2 convenient [1] - 74:16 Cooperative [1] - 58:12 coordinate [1] - 8:24 Coordination [1] - 50:17 coordination [2] - 51:1, 62:11 coordinations [1] - 49:5 Coordinator [1] - 4:20 coordinator [1] - 58:14 Copenhagen [1] - 91:17 copy [3] - 7:2, 16:24, 58:17 core [1] - 51:13 corporations [1] - 43:8 Corps [1] - 60:22 correct [2] - 29:17, 61:1 cost [6] - 23:9, 75:4, 76:2, 76:5, 76:12, 79:17 costs [4] - 73:16,</p>	<p>76:10, 76:18, 85:22 Council [7] - 9:14, 16:12, 46:11, 46:14, 47:19, 48:20, 50:21 count [1] - 19:12 country [1] - 41:10 County [1] - 58:13 couple [8] - 8:10, 10:11, 12:11, 12:21, 65:16, 65:20, 71:4, 74:6 course [6] - 9:6, 51:24, 52:22, 53:17, 72:24, 78:17 courts [1] - 63:9 cover [1] - 44:3 covered [1] - 13:11 craft [1] - 46:12 crafted [1] - 63:11 create [1] - 53:4 created [2] - 38:4, 41:21 creates [1] - 22:20 creating [1] - 52:10 crew [1] - 91:22 criminal [3] - 30:17, 63:13, 63:14 criteria [2] - 45:18, 56:21 critical [7] - 22:7, 23:18, 33:22, 34:4, 56:22, 79:22, 85:17 criticizes [1] - 75:21 Crosby [1] - 37:1 cross [1] - 67:23 crowded [1] - 52:5 Cruises [1] - 72:13 cruises [1] - 34:22 cruising [1] - 34:20 cultural [5] - 28:5, 28:8, 28:13, 30:8, 45:21 cumulative [2] - 13:7 cumulatively [1] - 13:6 curious [1] - 60:14 current [5] - 13:1, 23:1, 49:17, 62:15, 78:3 currents [1] - 42:15 customers [2] - 33:14 Cuttyhunk [2] - 10:6, 10:15 CZM [2] - 5:13, 87:11</p> <p style="text-align: center;">D</p> <p>damaging [2] -</p>	<p>22:23, 23:8 dangerous [1] - 41:13 Dartmouth [1] - 11:4 data [26] - 12:15, 12:17, 13:10, 13:12, 13:20, 21:11, 22:5, 27:23, 33:19, 37:8, 37:11, 37:21, 45:14, 47:9, 50:2, 50:10, 64:2, 64:8, 78:1, 78:2, 78:8, 78:9, 81:16, 87:22 database [1] - 21:15 Date [1] - 93:20 date [3] - 22:6, 26:19, 89:7 daunting [1] - 89:8 Dave [1] - 86:19 David [7] - 2:15, 2:22, 41:2, 43:20, 43:22, 69:3, 78:18 day's [1] - 43:10 days [1] - 5:11 deadline [2] - 16:17, 44:3 deal [2] - 45:1, 81:6 dealing [2] - 69:13 dealt [1] - 67:9 decade [1] - 17:9 December [3] - 7:8, 9:20, 15:17 decibels [1] - 91:22 decided [3] - 18:21, 80:16, 81:10 decimating [1] - 86:4 decision [3] - 56:12, 72:2, 91:12 decisions [4] - 33:20, 41:20, 46:3, 55:19 deck [14] - 20:1, 20:19, 26:10, 29:5, 35:10, 36:18, 39:22, 41:3, 43:21, 51:6, 54:10, 69:4, 71:21, 77:6 deductible [1] - 44:17 deemed [1] - 38:24 deep [5] - 25:9, 31:21, 60:16, 61:3, 64:13 Deerin [11] - 1:22, 2:3, 4:21, 7:1, 19:3, 19:5, 19:15, 20:5, 51:9, 87:11, 87:16 defend [1] - 22:20 defense [2] - 57:1, 57:15</p>	<p>Defense [3] - 57:18, 66:18, 66:23 defer [2] - 20:10, 35:6 deficient [1] - 29:16 defined [1] - 14:3 definition [2] - 46:24, 79:16 degradation [1] - 79:10 degraded [1] - 78:6 Delahunt's [1] - 11:5 delegation [1] - 59:1 deliberate [1] - 19:1 demonstrate [4] - 24:10, 24:17, 27:22, 27:23 demonstrated [3] - 73:1, 76:23, 81:16 denial [1] - 56:9 dense [1] - 84:19 Department [3] - 57:17, 66:18, 66:22 depended [1] - 70:24 dependence [1] - 21:4 depicted [2] - 34:6, 34:23 depicts [1] - 34:10 deployment [1] - 25:16 describes [1] - 45:13 description [1] - 62:15 deserves [2] - 57:24, 67:8 design [1] - 23:10 designation [1] - 76:21 desired [1] - 45:16 desk [1] - 5:15 destroy [2] - 43:16, 67:2 detail [4] - 48:4, 49:23, 65:17, 80:3 detailed [7] - 5:24, 21:11, 25:21, 32:12, 77:14, 80:2, 92:13 details [2] - 33:24, 45:10 detected [1] - 83:23 detecting [1] - 57:9 detection [1] - 57:12 determination [6] - 38:20, 57:6, 72:9, 74:21, 79:12, 79:14 determine [1] - 62:18 determined [3] - 39:4, 76:5, 79:11 determining [1] -</p>	<p>81:9 develop [11] - 15:7, 15:23, 16:13, 17:17, 45:6, 46:1, 46:23, 49:7, 50:11, 61:24, 86:15 developed [6] - 12:8, 12:12, 24:1, 42:5, 50:19, 81:7 developer [2] - 22:19, 22:23 developers [4] - 24:15, 65:2, 74:16, 74:17 developing [1] - 50:24 development [20] - 14:23, 17:19, 21:3, 23:20, 25:13, 28:2, 28:8, 29:1, 47:20, 48:9, 49:14, 55:17, 56:4, 59:9, 62:17, 79:21, 80:7, 80:17, 81:3, 81:15 developments [1] - 56:18 develops [1] - 59:12 dictates [1] - 53:18 differences [1] - 17:10 different [6] - 12:7, 12:21, 39:16, 78:20, 85:10, 85:11 difficult [2] - 17:22, 53:15 difficulty [1] - 44:13 digitizing [1] - 37:21 diligently [1] - 81:20 direct [3] - 24:17, 80:7, 81:2 directed [2] - 79:22, 80:17 direction [3] - 64:9, 90:7, 93:12 directly [1] - 55:19 director [1] - 26:13 Director [3] - 18:12, 54:12, 77:9 directs [1] - 8:18 DIS [1] - 66:2 disbursement [1] - 28:17 disbursing [1] - 28:23 discern [1] - 19:1 discontinued [2] - 73:13, 77:2 discuss [2] - 50:13, 91:21 discussed [1] -</p>
--	--	--	---	--

<p>11:16 discusses [2] - 13:22, 14:8 discussing [1] - 72:16 discussion [5] - 14:15, 14:19, 40:22, 49:20, 50:24 discussions [2] - 14:21, 15:4 disgrace [1] - 68:2 disruption [3] - 39:6, 44:13, 45:8 distance [1] - 53:12 distinct [1] - 49:19 distress [1] - 89:22 distributing [1] - 14:5 distribution [2] - 44:21, 78:20 diverse [1] - 50:21 Division [3] - 8:23, 46:6, 46:20 document [8] - 29:15, 38:8, 59:16, 61:16, 61:17, 73:4, 87:20, 93:9 documentations [1] - 34:11 documented [2] - 30:19, 83:22 documents [3] - 47:6, 47:23, 67:7 DOE [1] - 74:24 dollars [1] - 43:10 dominates [1] - 45:17 done [13] - 10:17, 15:18, 22:4, 33:22, 35:12, 51:8, 51:9, 66:14, 72:5, 85:9, 85:11, 85:21, 91:3 double [2] - 60:23, 62:2 doubt [1] - 33:20 doughnut [1] - 52:12 DOW [1] - 43:22 Dow [5] - 2:15, 41:2, 43:20, 43:22, 78:18 down [8] - 10:20, 11:8, 15:11, 18:3, 35:16, 35:17, 71:11, 71:15 download [1] - 16:22 dozen [1] - 30:1 Dr [1] - 58:18 Draft [45] - 4:7, 5:2, 6:22, 9:6, 9:22, 14:20, 18:4, 18:5, 18:23, 21:7, 23:22, 24:16,</p>	<p>24:20, 25:6, 25:19, 25:20, 25:22, 26:16, 27:2, 28:6, 29:12, 29:19, 33:1, 34:2, 37:10, 38:3, 38:16, 44:24, 45:13, 47:8, 47:20, 49:20, 50:13, 55:1, 55:2, 55:22, 57:20, 74:8, 74:14, 77:13, 79:9, 80:5, 81:15, 87:14, 87:20 DRAFT [1] - 1:17 draft [14] - 7:9, 7:10, 19:9, 22:15, 34:7, 35:3, 44:7, 66:2, 67:12, 68:19, 71:11, 88:11, 92:2, 92:5 drafted [2] - 19:4, 71:10 drafting [1] - 70:19 draw [2] - 15:9, 90:1 driven [1] - 67:10 driver [1] - 72:21 due [3] - 14:18, 53:11, 85:19 dunes [1] - 41:8 duration [1] - 34:22 During [2] - 51:24, 52:21 during [2] - 67:16, 85:5 DURKIN [1] - 71:22 Durkin [3] - 2:23, 69:4, 71:20 dynamic [1] - 17:18</p>	<p>ecosystem [9] - 44:19, 44:20, 45:9, 46:18, 47:6, 55:14, 69:16, 85:18, 86:16 Ecosystem [1] - 46:17 ecosystem-based [1] - 45:9 ecosystems [1] - 86:5 Ed [2] - 87:5, 87:9 education [1] - 19:16 Edward [1] - 3:5 EEA [9] - 4:24, 5:13, 5:16, 6:1, 7:7, 27:3, 27:11, 49:3, 50:23 EEA's [1] - 49:7 EEIs [2] - 45:3, 46:2 Eelgrass [1] - 78:6 effect [1] - 44:21 effective [1] - 92:2 effectively [1] - 84:9 effects [3] - 13:7, 45:7, 73:15 efficiency [1] - 21:3 effort [2] - 19:16, 87:13 efforts [6] - 26:20, 37:18, 49:3, 49:7, 49:10, 73:23 Egan [3] - 2:12, 35:10, 37:1 EGAN [1] - 36:19 EIR [2] - 27:8, 27:9 either [2] - 52:14, 62:8 elected [2] - 6:13, 71:15 electric [1] - 11:23 electrical [1] - 40:7 electricity [2] - 42:11, 43:11 electronically [1] - 16:22 elegant [1] - 21:16 eliminate [1] - 58:1 eliminated [1] - 56:10 Eliminating [1] - 52:23 Elrick [2] - 77:7, 82:1 eluded [1] - 89:20 emissions [2] - 72:23, 73:2 emotional [1] - 90:4 employed [1] - 32:23 employs [1] - 33:5 empty [1] - 61:19 enclosed [1] - 13:17 encourage [2] - 20:1,</p>	<p>47:7 encourages [1] - 50:22 encouraging [1] - 32:11 end [10] - 5:3, 5:14, 7:9, 17:23, 42:22, 43:11, 62:7, 62:8, 81:11, 91:1 endanger [1] - 72:17 endangered [2] - 63:8, 83:2 endeavors [1] - 47:20 ends [1] - 39:2 energies [1] - 80:11 Energy [17] - 4:14, 11:6, 22:12, 24:21, 25:7, 33:3, 44:1, 55:3, 56:8, 61:10, 61:17, 72:1, 74:20, 74:23, 75:16, 77:11, 81:5 ENERGY [1] - 1:3 energy [40] - 8:2, 10:5, 10:13, 10:14, 10:18, 10:20, 11:20, 12:12, 13:1, 21:3, 21:22, 23:20, 23:23, 24:8, 24:23, 25:5, 25:12, 43:18, 47:17, 48:8, 48:11, 52:6, 55:21, 56:14, 72:22, 72:23, 72:24, 73:3, 74:22, 75:9, 75:13, 75:20, 75:22, 76:5, 76:12, 76:22, 89:10, 89:13 enforce [1] - 68:9 engage [1] - 34:19 engaging [1] - 50:23 engine [1] - 67:3 Engineer [1] - 60:22 England [2] - 46:14, 75:2 England's [1] - 20:24 enhance [2] - 24:14, 49:18 enhanced [1] - 49:22 enmassed [1] - 77:15 enormous [2] - 82:24, 90:2 ensure [8] - 15:19, 25:2, 45:19, 52:19, 56:16, 58:5, 80:17, 81:13 entire [5] - 42:20, 58:21, 69:24, 86:5, 86:16 entrances [1] - 53:4</p>	<p>environment [4] - 21:1, 43:17, 45:2, 45:20 environmental [10] - 18:15, 20:23, 27:14, 27:17, 29:23, 42:5, 45:4, 49:2, 55:7, 64:10 ENVIRONMENTAL [1] - 1:3 Environmental [8] - 4:14, 4:17, 22:12, 33:3, 44:2, 53:21, 74:9, 77:11 environmentalist [1] - 46:22 envision [1] - 15:17 envisions [1] - 14:10 EPA [1] - 76:6 especially [3] - 26:22, 45:2, 87:16 essence [1] - 17:8 essentially [7] - 9:24, 11:21, 12:19, 14:5, 14:24, 15:6, 22:20 establish [2] - 7:7, 53:12 established [1] - 57:20 establishing [1] - 88:21 establishment [1] - 28:18 estimate [1] - 85:6 estimated [1] - 33:6 Estuarine [1] - 8:7 Europe [2] - 43:1, 60:16 evaluate [1] - 39:10 evaluated [2] - 39:15, 55:4 evaluation [2] - 50:13, 88:4 evening [23] - 4:4, 4:6, 4:11, 4:12, 5:21, 6:12, 6:17, 6:18, 20:20, 29:10, 32:18, 32:24, 34:21, 36:19, 36:21, 41:4, 51:12, 58:10, 59:23, 69:5, 79:1, 87:11, 92:13 evening's [1] - 32:9 Eventually [1] - 91:8 everyday [1] - 89:24 evidence [3] - 33:18, 44:13, 72:14 evil [6] - 68:21, 68:22, 74:1 evolution [1] - 9:11</p>
E				
<p>e-mail [1] - 6:1 e-mailed [1] - 5:13 early [1] - 57:19 earth [1] - 69:16 east [1] - 52:14 East [2] - 42:18, 83:19 easy [1] - 65:15 echoed [1] - 36:8 echoing [2] - 21:8, 35:18 ecological [4] - 47:12, 50:12, 80:21, 88:4 economic [5] - 24:18, 28:14, 33:7, 67:3, 89:21 economically [1] - 76:7 economics [1] - 55:6 economy [1] - 28:12</p>				

<p>exact [1] - 66:16 exactly [1] - 14:9 example [9] - 11:19, 13:8, 13:13, 24:21, 38:10, 38:11, 57:2, 61:23, 85:12 exceed [1] - 48:12 exclude [1] - 80:10 excluded [1] - 80:13 exclusions [1] - 80:4 Excuse [4] - 19:23, 26:4, 36:17, 81:24 excuse [1] - 65:18 EXECUTIVE [1] - 1:3 Executive [7] - 4:14, 22:11, 33:2, 44:1, 54:12, 77:8, 77:10 exemplary [1] - 21:12 exercise [1] - 12:16 exist [2] - 36:3, 73:17 existing [9] - 7:13, 7:21, 11:15, 12:14, 14:6, 27:3, 50:4, 55:20, 63:20 exists [1] - 23:8 expect [2] - 26:13, 62:14 expected [1] - 60:14 experience [5] - 15:9, 31:15, 36:23, 61:9, 86:23 experiencing [2] - 88:23, 89:22 experimental [1] - 77:2 expert [1] - 31:11 experts [2] - 31:12, 85:22 Expires [1] - 93:22 explained [1] - 40:22 explanation [2] - 40:10, 40:13 explicit [1] - 25:1 exploration [1] - 25:18 explored [1] - 48:4 exposed [1] - 25:9 express [1] - 73:23 expressed [2] - 78:2, 79:5 extend [1] - 5:10 extends [1] - 57:21 extension [2] - 58:13, 59:13 extinct [1] - 63:6 extraction [2] - 8:3, 11:23 eyes [1] - 43:13</p>	<p style="text-align: center;">F</p> <p>FAA [2] - 57:5, 72:8 face [1] - 44:17 Facilities [3] - 56:8, 72:1, 81:6 facilities [6] - 8:3, 11:20, 14:1, 21:22, 60:17, 91:23 Facility [3] - 61:10, 61:18, 74:20 facility [2] - 43:2, 61:4 fact [16] - 6:11, 10:17, 17:6, 30:20, 39:12, 56:17, 58:19, 58:20, 58:24, 63:19, 73:3, 74:24, 79:6, 80:1, 80:5, 82:23 facts [2] - 76:1, 77:1 failed [1] - 91:2 fair [3] - 24:19, 76:7, 87:17 Falmouth [1] - 57:22 false [1] - 53:16 familiar [2] - 7:6, 13:14 familiarity [1] - 36:23 family [1] - 69:12 famous [1] - 63:10 far [3] - 15:21, 32:1, 75:7 farm [2] - 82:21, 83:14 farms [2] - 64:3, 84:18 fascinating [1] - 33:19 fast [1] - 19:11 Federal [30] - 11:9, 24:21, 24:22, 29:19, 29:23, 30:6, 30:18, 30:23, 38:21, 48:24, 50:5, 52:8, 52:12, 54:20, 54:21, 55:1, 55:2, 55:8, 55:10, 55:14, 64:1, 67:16, 67:18, 67:21, 67:23, 68:4, 68:9, 68:12, 74:9, 74:23 fee [1] - 25:1 fee-sharing [1] - 25:1 fees [4] - 24:23, 28:19, 28:23 feet [7] - 42:3, 60:18, 60:22, 62:4, 62:5, 66:1, 67:6 ferry [1] - 35:21</p>	<p>festooning [1] - 63:6 few [3] - 44:3, 50:16, 81:4 FHA [1] - 62:12 field [2] - 24:19, 62:6 fieldwork [1] - 37:24 fighting [1] - 26:5 fight [1] - 67:17 figure [1] - 88:24 file [1] - 30:23 filed [1] - 42:21 final [29] - 15:10, 16:9, 19:2, 27:12, 28:14, 28:16, 28:21, 34:6, 35:3, 38:16, 40:14, 49:12, 49:22, 54:6, 54:16, 54:22, 55:15, 56:16, 58:1, 58:4, 66:4, 67:12, 67:13, 68:18, 72:2, 79:13, 80:19, 81:1, 81:22 finalized [1] - 91:13 Finally [2] - 48:2, 81:4 firm [2] - 22:11, 37:2 firmly [1] - 90:19 first [14] - 6:16, 17:4, 18:18, 21:13, 23:20, 27:13, 32:17, 33:23, 44:11, 50:16, 77:14, 77:24, 88:2, 89:4 First [8] - 7:18, 21:19, 26:20, 27:1, 29:22, 54:17, 73:4, 73:10 firsthand [1] - 66:12 fish [4] - 44:21, 67:22, 91:8, 91:11 Fisheries [3] - 8:23, 46:6, 46:20 fisheries [3] - 44:18, 46:4, 54:23 fishermen [2] - 66:24, 67:23 Fishermen's [1] - 76:14 fishery [2] - 46:10, 46:13 Fishery [2] - 46:14, 46:17 Fishing [2] - 87:10, 87:17 fishing [12] - 8:22, 9:1, 9:2, 35:1, 46:7, 46:21, 46:24, 47:4, 51:21, 81:1, 87:18, 88:11 five [7] - 5:1, 13:2, 30:7, 60:16, 62:1,</p>	<p>62:10, 64:12 fixed [1] - 25:3 flashing [1] - 38:22 flies [1] - 85:21 flight [1] - 66:16 flights [4] - 57:12, 66:15, 68:1, 72:10 floating [2] - 42:6, 61:3 flows [2] - 53:23, 54:3 fly [3] - 85:11, 86:11, 89:3 flyway [1] - 83:19 focus [3] - 21:18, 82:15, 86:18 focused [2] - 26:24, 50:20 focuses [3] - 7:16, 8:2, 49:1 focusing [1] - 75:22 fog [1] - 67:23 folks [17] - 4:4, 5:24, 6:10, 9:14, 11:4, 19:23, 19:24, 20:11, 20:12, 20:15, 26:4, 32:5, 32:11, 32:13, 87:3, 92:15 follow [3] - 5:24, 24:20, 31:17 follow-up [2] - 5:24, 31:17 follows [1] - 31:5 foolish [1] - 43:16 footprint [1] - 39:8 FOR [1] - 1:17 force [2] - 36:20, 69:10 forceful [1] - 42:15 foregoing [1] - 93:9 forgive [1] - 20:4 form [2] - 6:1, 45:3 formal [4] - 5:18, 26:18, 29:2, 32:10 formally [4] - 7:10, 18:22, 37:3, 60:21 format [3] - 5:18, 37:22, 40:18 forms [1] - 28:7 forth [3] - 13:23, 15:3, 36:12 forward [15] - 9:10, 17:17, 19:18, 25:17, 25:23, 78:12, 78:17, 79:20, 81:8, 81:22, 87:24, 88:14, 92:13, 92:15 fossil [1] - 21:4 foster [1] - 25:12 foundation [1] -</p>	<p>87:21 Foundation [3] - 20:18, 20:22, 75:16 four [5] - 26:24, 42:19, 49:11, 60:18, 77:20 Four [1] - 50:17 four-story [1] - 42:19 framework [9] - 9:10, 9:13, 16:7, 21:16, 37:7, 50:3, 64:17, 64:18 France [1] - 43:2 frankly [2] - 13:16, 65:7 frayed [1] - 41:24 frequent [1] - 52:24 frequently [2] - 37:15, 52:22 friends [1] - 69:24 front [3] - 5:15, 62:13, 72:14 frozen [1] - 54:1 fuel [2] - 75:10, 75:18 fuels [1] - 21:5 fulfill [1] - 22:16 full [1] - 26:17 fully [2] - 40:22, 50:18 fund [1] - 75:5 Fund [7] - 14:24, 28:16, 28:17, 28:19, 48:10, 48:13 funded [1] - 16:4 funding [1] - 16:6 funds [1] - 48:7 future [5] - 22:14, 64:20, 77:23, 81:14, 88:22 futures [1] - 59:7</p> <p style="text-align: center;">G</p> <p>gallons [1] - 41:14 gaps [1] - 87:22 garage [1] - 42:20 gathered [2] - 22:5, 43:6 Gaynor [1] - 73:11 gazed [1] - 41:18 GE [1] - 73:13 GEIST [1] - 77:8 Geist [4] - 2:24, 71:21, 77:6, 77:8 general [1] - 9:2 generally [2] - 21:16, 74:4 generated [1] - 48:8</p>
---	---	---	---	--

<p>generates [1] - 33:6 generation [4] - 40:8, 70:24, 75:24 generations [2] - 22:14, 81:14 geographically [2] - 14:2, 14:5 geography [1] - 13:17 Gifford [3] - 2:17, 51:6, 51:13 GIFFORD [1] - 51:8 given [6] - 19:2, 26:22, 50:15, 55:12, 57:24, 58:17 Glen [3] - 26:10, 29:10, 65:10 Glenn [2] - 2:9, 2:21 global [2] - 21:1, 72:21 globalization [1] - 91:15 Gloucester [2] - 5:7, 10:24 goals [1] - 7:18 GOOD [2] - 39:24, 40:24 gorgeous [1] - 41:8 Government [1] - 18:13 government [4] - 30:6, 43:9, 50:18, 55:9 Governor [1] - 18:14 Governor's [1] - 4:17 gradual [1] - 60:12 grandmother [1] - 43:12 gratitude [1] - 81:19 gravel [1] - 11:22 great [9] - 33:12, 42:1, 53:2, 76:23, 77:13, 77:16, 80:3, 81:6, 84:6 Great [1] - 84:16 greater [1] - 30:11 greatest [2] - 12:10, 69:15 greenest [1] - 69:16 Greg [1] - 35:10 Gregg [5] - 2:12, 2:17, 36:17, 37:1, 51:6 grid [1] - 75:2 ground [1] - 17:17 grounds [2] - 35:1, 88:12 groundwork [1] - 88:21 group [5] - 43:23,</p>	<p>46:21, 48:20, 51:10, 68:11 groups [8] - 19:14, 37:24, 46:23, 50:20, 50:23, 51:2, 55:23, 67:1 grow [1] - 59:2 Guard [5] - 38:10, 52:18, 53:9, 57:2, 62:12 guess [5] - 40:12, 63:17, 63:18, 63:20, 76:1 guidance [3] - 15:23, 28:1, 56:24 guides [1] - 47:14 guiding [1] - 49:14 guy [1] - 71:4 guys [1] - 59:20</p>	<p>heads [1] - 11:8 hear [9] - 17:11, 18:24, 32:5, 61:6, 68:22, 70:1, 70:7, 70:11, 74:1 heard [4] - 13:24, 15:14, 61:2, 66:24 HEARING [1] - 1:7 Hearing [1] - 4:6 hearing [8] - 4:11, 4:12, 5:12, 5:18, 14:21, 33:4, 41:6, 92:18 hearings [7] - 5:2, 5:5, 6:7, 6:9, 14:22, 18:24, 19:13 hearts [1] - 67:2 Heather [3] - 2:7, 20:17, 20:21 heavily [3] - 28:11, 57:4, 75:22 heights [4] - 65:24, 85:10, 85:12 held [1] - 48:6 helicopters [1] - 91:22 hell [2] - 43:15, 65:1 help [2] - 6:2, 16:13 helping [1] - 71:4 Herculean [1] - 19:16 Hi [4] - 39:24, 54:11, 77:8, 88:18 High [1] - 72:13 high [2] - 84:1, 84:20 High-Line [1] - 72:13 Hill [2] - 76:3, 76:20 hinting [1] - 91:9 Historic [5] - 29:20, 29:22, 30:13, 68:7, 68:13 historic [8] - 30:2, 30:3, 30:8, 30:11, 31:6, 73:16, 73:17, 78:9 historically [1] - 90:21 history [3] - 20:24, 63:1, 86:4 Hitchcock [3] - 2:16, 43:21, 48:18 HITCHCOCK [1] - 48:18 hold [1] - 25:20 holding [1] - 5:2 holdup [1] - 68:8 holdups [1] - 68:6 hole [1] - 52:12 Hole [3] - 48:6, 51:13, 52:3</p>	<p>home [1] - 52:4 homeowners [2] - 44:14, 44:16 honest [1] - 34:5 hope [13] - 17:24, 34:10, 35:2, 37:23, 68:17, 70:9, 70:17, 71:8, 71:18, 84:11, 90:3, 90:7 hopefully [2] - 29:3, 37:22 hopes [1] - 31:14 horrific [1] - 83:6 horrified [2] - 63:5, 83:11 horror [1] - 83:12 Horseshoe [2] - 30:1, 30:20 host [2] - 24:11, 25:2 hours [2] - 41:12, 42:12 huge [4] - 42:3, 42:19, 89:22, 90:1 human [5] - 12:9, 45:19, 46:5, 46:11, 47:7 humans [1] - 86:12 hundreds [4] - 69:12, 70:16, 70:22, 71:5 hurricane [1] - 60:19 hurry [4] - 71:9, 71:10, 71:12, 71:17 Hyannis [2] - 52:3, 53:24 Hyannisport [2] - 41:18, 90:17</p>	<p>identifying [4] - 22:5, 23:17, 50:3, 51:3 lffy [1] - 64:12 ignored [2] - 31:10, 68:3 ignores [5] - 29:19, 30:16, 54:21, 56:21, 57:21 ignoring [2] - 68:12, 68:14 illumination [1] - 84:22 illustrates [1] - 44:21 Imagine [1] - 42:20 imagine [2] - 19:9, 83:7 immediate [2] - 13:4, 14:7 Impact [1] - 74:9 impact [11] - 12:10, 13:7, 27:15, 27:17, 28:7, 28:14, 30:1, 30:8, 39:8, 76:13 impacted [2] - 28:24, 44:12 impacts [8] - 15:2, 28:12, 30:5, 30:11, 30:15, 42:5, 55:7, 73:16 imperative [2] - 25:15, 89:21 implement [3] - 16:7, 51:3, 81:17 implementation [6] - 8:18, 16:14, 45:11, 48:3, 49:15, 50:16 implementations [1] - 15:3 implemented [6] - 7:12, 7:13, 12:3, 44:9, 50:8, 79:20 implementing [1] - 49:24 implications [1] - 56:13 imploding [1] - 86:2 importance [2] - 33:12, 89:15 important [14] - 9:18, 16:10, 21:23, 25:12, 25:17, 34:17, 37:8, 38:2, 38:6, 38:13, 51:16, 52:7, 82:16 Importantly [1] - 7:11 imposing [1] - 41:8 impressive [2] - 21:15, 29:15 improperly [1] - 20:5 inaccurate [1] -</p>
H		I		

<p>62:24 inadequately [1] - 88:8 inappropriate [2] - 28:2, 55:17 incidental [1] - 49:13 include [11] - 34:2, 34:4, 34:13, 34:19, 35:3, 37:11, 49:20, 54:22, 78:9, 80:23, 81:2 included [4] - 34:15, 38:7, 40:5, 55:15 includes [3] - 8:2, 48:23, 56:20 including [5] - 27:4, 37:13, 41:11, 84:22, 86:12 income [2] - 67:3, 75:19 incorporated [1] - 8:19 indeed [1] - 21:24 independence [1] - 63:3 index [2] - 80:20, 80:21 indexes [1] - 88:4 Indian [1] - 68:5 indicate [1] - 30:13 indicated [2] - 46:14, 46:18 indicator [1] - 47:12 individual [2] - 11:17, 13:10 individuals [2] - 74:5, 77:12 industrialization [2] - 41:10, 90:20 industries [2] - 62:16, 62:18 industry [5] - 39:18, 46:23, 59:2, 59:8, 59:12 Industry [1] - 58:21 Information [1] - 5:15 information [13] - 6:7, 34:10, 35:3, 45:15, 47:10, 53:16, 59:17, 61:1, 62:15, 62:24, 65:6, 77:14, 81:7 infuriates [1] - 73:19 initial [1] - 5:19 initiatives [1] - 21:4 inlets [1] - 53:5 input [5] - 9:14, 18:6, 36:22, 37:23, 39:19 instability [1] - 76:23</p>	<p>installations [2] - 38:18, 57:14 installing [1] - 62:22 instead [2] - 79:7, 80:9 Institute [1] - 76:3 Institute's [1] - 76:21 institutionalized [1] - 15:20 insurance [3] - 44:14, 44:16, 44:17 integrated [2] - 21:17, 55:11 intelligence [1] - 43:6 intended [1] - 39:7 intensity [1] - 84:20 intent [1] - 49:16 intentional [1] - 12:7 intentioned [1] - 24:11 intentions [1] - 39:2 inter [1] - 49:5 inter-agency [1] - 49:5 interconnected [1] - 86:14 interest [3] - 5:22, 17:24, 44:4 interested [2] - 6:11, 82:9 interesting [2] - 33:19, 63:2 interface [1] - 61:7 interference [13] - 38:3, 38:11, 53:6, 53:10, 53:15, 56:22, 56:24, 57:3, 57:7, 57:18, 57:23, 73:15, 88:8 intermittent [1] - 84:23 intermittently [1] - 42:13 International [2] - 83:20, 84:15 international [1] - 30:18 interrupt [1] - 8:11 introduce [1] - 87:8 involved [1] - 87:19 involvement [3] - 16:11, 47:22 island [1] - 34:24 Island [3] - 30:4, 48:5, 76:15 Islanders [2] - 70:5, 70:22 islands [2] - 11:2, 51:20</p>	<p>Islands [5] - 4:20, 43:23, 48:7, 52:1, 70:10 ISO [1] - 75:2 issuance [1] - 81:22 issue [11] - 12:19, 28:4, 38:2, 38:13, 40:20, 51:16, 56:22, 78:24, 79:19, 85:16, 91:14 issued [2] - 57:5, 72:8 issues [19] - 8:1, 9:2, 17:7, 21:19, 28:16, 29:18, 30:7, 31:7, 36:4, 49:2, 50:22, 51:1, 54:14, 58:4, 64:19, 64:20, 68:3, 77:21, 88:7 Italian [1] - 43:12 items [3] - 9:8, 9:16, 14:15 itself [4] - 13:10, 16:15, 38:18, 40:20 IYANNOUGH [1] - 1:13</p>	<p style="text-align: center;">K</p> <p>keep [3] - 6:2, 7:12, 52:7 keeping [1] - 70:17 Kellogg [1] - 32:23 Kennedy [2] - 30:4, 41:17 KENNY [1] - 59:23 Kenny [3] - 2:20, 59:21, 59:23 kept [1] - 69:11 Kept [1] - 69:11 key [3] - 9:6, 28:9, 56:9 kidding [1] - 6:24 kids [1] - 41:15 kill [5] - 30:21, 31:1, 84:7, 84:8, 86:1 killed [9] - 64:4, 74:11, 82:22, 83:6, 83:7, 83:8, 83:11, 85:8 killing [2] - 83:10, 84:6 kills [1] - 86:1 kilometer [1] - 57:20 kind [5] - 19:2, 62:13, 65:19, 84:5, 91:11 Kinney [1] - 58:9 knowledge [1] - 66:12 known [2] - 41:9, 82:23 knows [2] - 69:17, 69:20</p>	<p>Laura [1] - 74:10 Law [2] - 20:18, 20:22 law [8] - 30:18, 63:7, 63:8, 63:12, 63:14, 63:20, 65:1, 83:1 laws [4] - 29:19, 63:19, 63:21, 68:9 lay [1] - 24:12 layer [1] - 80:16 layered [1] - 89:8 leads [2] - 14:11, 15:6 lease [3] - 24:23, 25:1, 25:3 least [1] - 33:17 leave [3] - 41:7, 69:23, 91:3 left [3] - 13:11, 26:6, 82:2 leg [1] - 34:20 legacies [1] - 42:1 legal [2] - 22:18, 91:18 legislation [1] - 51:19 legislative [1] - 59:1 legislature [1] - 44:10 length [1] - 42:20 less [7] - 14:4, 22:23, 23:7, 23:16, 42:4, 59:6 lesson [1] - 65:14 lethal [1] - 72:12 letter [8] - 30:22, 31:5, 58:20, 64:1, 64:5, 66:8, 77:23, 79:24 level [4] - 24:19, 26:21, 79:2, 79:6 Lewis [1] - 57:22 liability [3] - 30:17, 63:14, 64:5 liable [1] - 60:6 Liberty [1] - 73:6 Life [1] - 8:7 life [10] - 9:9, 11:18, 42:24, 69:8, 69:10, 69:24, 70:22, 82:12, 88:24, 91:1 life-long [1] - 69:8 light [4] - 25:15, 38:22, 53:19, 84:23 lights [5] - 38:22, 41:12, 84:24, 85:2, 85:7 likely [2] - 15:22, 38:14 limit [3] - 5:21, 6:4,</p>
J			L	
<p>Jack [7] - 2:6, 4:17, 6:13, 18:12, 19:20, 21:9, 31:11 job [13] - 22:4, 35:12, 51:9, 60:6, 60:8, 62:14, 70:13, 70:14, 82:17, 83:16, 90:6 Joe [1] - 58:18 John [8] - 1:23, 2:4, 4:12, 5:19, 6:21, 19:3, 19:6, 51:9 Johnson [1] - 74:10 joining [2] - 4:11, 6:17 Journal [1] - 84:15 judgment [1] - 12:20 judgment-type [1] - 12:20 July [1] - 93:22 jump [3] - 9:20, 20:10, 26:9 jumping [1] - 20:17 June [3] - 5:3, 7:9, 48:5 jurisdiction [2] - 8:23, 55:5 jurisdictional [1] - 52:8 jurisdictions [3] - 50:6, 50:17, 56:5</p>			<p>land [3] - 42:12, 45:5, 89:18 Land [2] - 10:6, 10:15 landmarks [2] - 30:3, 73:17 large [5] - 11:6, 19:14, 39:3, 44:17, 44:20 larger [2] - 25:5, 38:14 larger-scale [1] - 25:5 largest [2] - 58:23, 64:13 last [8] - 5:6, 5:11, 9:5, 17:9, 19:12, 29:6, 59:18, 68:17</p>	

<p>55:4 limitations [3] - 36:13, 50:9, 50:15 limited [1] - 53:20 limiting [1] - 24:5 limits [2] - 7:22, 39:4 Line [1] - 72:13 line [8] - 19:24, 42:22, 57:17, 64:8, 66:19, 67:23, 68:4, 89:24 lined [1] - 42:21 lines [2] - 67:22, 67:24 linking [1] - 75:10 list [4] - 6:15, 20:8, 20:11, 87:3 listed [3] - 5:14, 16:23, 82:6 listen [3] - 18:1, 18:2, 19:17 listening [1] - 70:10 lit [1] - 85:2 live [2] - 16:24, 86:10 lived [1] - 69:24 livelihood [3] - 33:15, 54:7, 86:12 lives [2] - 54:7, 70:19 living [3] - 70:1, 70:6, 71:6 load [1] - 62:1 local [15] - 14:12, 24:8, 24:17, 34:23, 36:24, 48:23, 50:6, 50:18, 50:24, 55:18, 56:2, 56:8, 56:14, 56:16, 65:1 Local [1] - 61:13 located [3] - 24:23, 38:4, 57:17 location [2] - 81:8, 92:1 locations [4] - 25:13, 52:15, 54:24, 55:2 logical [2] - 30:9, 30:24 look [14] - 8:24, 11:24, 13:21, 19:18, 25:23, 43:12, 75:8, 76:18, 81:22, 83:17, 88:14, 91:5, 92:13, 92:15 looked [3] - 12:23, 13:6, 67:9 looking [8] - 12:13, 12:17, 12:19, 14:6, 16:20, 26:6, 76:2, 76:11 Looks [1] - 90:9 loons [1] - 85:12</p>	<p>losing [1] - 76:19 loss [2] - 76:16, 76:20 loud [1] - 29:7 Louder [1] - 4:9 love [1] - 90:5 loved [1] - 82:12 loves [1] - 82:11 low [1] - 85:6 lower [1] - 79:6 Luke [4] - 2:14, 39:22, 41:2, 41:4 lungs [1] - 86:2</p> <p style="text-align: center;">M</p> <p>MA [1] - 56:8 Madden [1] - 6:19 Madrid [2] - 91:17, 91:21 Maggi [2] - 2:24, 77:6 Maggy [2] - 71:21, 77:8 mail [2] - 6:1, 32:12 mailed [2] - 5:13 main [4] - 7:15, 8:8, 9:5, 49:11 MAIN [1] - 1:12 Maine [1] - 15:11 maintain [2] - 49:17, 89:14 maintenance [1] - 76:10 majestic [1] - 70:17 major [1] - 41:20 majority [3] - 10:8, 27:20, 55:23 man [1] - 44:22 man-made [1] - 44:22 managed [1] - 46:15 management [14] - 9:23, 21:14, 21:17, 45:10, 45:23, 46:7, 47:5, 47:14, 48:1, 49:2, 51:1, 58:5, 81:17, 88:11 MANAGEMENT [2] - 1:7, 1:17 Management [31] - 1:22, 1:23, 4:13, 4:20, 4:22, 8:20, 21:7, 21:10, 22:15, 25:22, 26:17, 27:2, 27:12, 28:15, 33:2, 33:12, 39:10, 40:7, 44:5, 44:8, 46:14, 46:19, 49:8, 49:15, 50:7,</p>	<p>78:9, 78:23, 79:9, 87:14, 87:15 Manager [1] - 1:23 manages [1] - 54:23 mandated [1] - 51:23 mandates [1] - 22:1 maneuver [1] - 52:24 manner [2] - 24:13, 52:24 manufacturer [1] - 64:13 map [9] - 11:9, 11:13, 11:17, 11:19, 12:4, 35:22, 80:6, 80:21, 90:9 mapification [1] - 79:5 mapped [1] - 13:11 maps [10] - 11:24, 12:2, 12:6, 12:7, 34:9, 35:19, 35:22, 47:8, 78:1 Marine [14] - 4:15, 8:7, 8:23, 11:5, 11:6, 32:22, 32:23, 33:8, 37:4, 37:5, 42:24, 46:6, 46:11, 46:20 marine [15] - 9:9, 11:18, 21:20, 22:3, 33:5, 33:10, 38:12, 44:20, 45:8, 53:10, 56:24, 57:3, 76:13, 89:16 marine-related [1] - 33:10 mariners [1] - 42:23 Maritime [1] - 53:9 marked [2] - 10:22, 90:19 markers [1] - 38:22 market [2] - 44:15, 44:16 Martha [3] - 3:4, 82:6, 82:8 Martha's [9] - 5:8, 6:19, 11:3, 11:7, 35:4, 51:14, 51:20, 56:3, 68:5 Mashpee [1] - 68:6 Mass [8] - 30:22, 31:11, 52:7, 68:7, 68:13, 74:7, 76:14, 81:17 mass.gov/eea/mop [1] - 5:17 Massachusetts [42] - 6:10, 16:3, 18:14, 21:7, 21:14, 21:24, 22:8, 22:10, 23:5, 23:13, 23:18, 32:22,</p>	<p>33:5, 35:14, 37:4, 44:1, 44:8, 46:6, 46:20, 47:3, 51:17, 52:12, 52:18, 54:7, 58:15, 58:21, 58:22, 60:12, 63:2, 63:24, 64:10, 68:14, 69:9, 69:14, 71:1, 85:20, 87:10, 90:2, 91:16, 91:21, 93:8, 93:11 MASSACHUSETTS [3] - 1:2, 1:7, 1:13 Massachusetts' [2] - 62:19, 68:12 masses [1] - 84:6 materials [1] - 16:22 matter [1] - 22:22 maybes [1] - 20:8 MBTA [5] - 29:21, 30:17, 31:10, 31:16 McKenna [1] - 4:19 McPherson [4] - 3:7, 90:16, 92:7 mean [2] - 74:4, 84:1 meaningful [1] - 51:2 meant [1] - 65:23 measures [2] - 45:19, 47:12 meat [1] - 9:21 mechanism [3] - 25:1, 28:22, 39:9 mechanisms [1] - 81:2 Mediterranean [1] - 60:19 meeting [5] - 65:22, 70:7, 83:4, 88:15 meetings [6] - 6:7, 19:13, 36:9, 45:13, 66:14, 67:14 megawatt [1] - 73:13 megawatts [2] - 62:1, 62:2 member [2] - 8:13, 20:23 members [6] - 6:13, 21:5, 33:13, 37:2, 59:12, 69:12 membership [2] - 34:11, 50:21 men [2] - 33:6, 61:23 mentioned [13] - 6:1, 9:8, 15:15, 27:16, 30:12, 63:22, 66:7, 74:14, 78:18, 80:15, 83:1, 83:4, 85:17 MEPA [7] - 11:15, 12:4, 15:24, 23:1, 27:1, 27:5, 27:8 Merrimack [1] -</p>	<p>10:24 message [2] - 70:11, 71:18 met [3] - 24:13, 65:20, 87:16 meters [4] - 13:3, 60:16, 60:23, 64:12 mic [2] - 65:18, 65:19 Michael [2] - 2:11, 35:9 microphone [2] - 19:22, 87:7 middle [2] - 62:6, 67:16 might [5] - 30:7, 38:18, 50:6, 62:11, 72:3 migrate [2] - 85:3, 85:4 migrates [1] - 85:20 migration [3] - 83:17, 84:19, 84:20 Migratory [5] - 29:20, 63:11, 74:12, 74:13, 83:20 migratory [2] - 30:15, 31:2 mile [3] - 55:4, 55:24, 67:6 miles [4] - 30:7, 30:10, 42:7, 53:6 million [8] - 52:2, 72:18, 73:7, 75:11, 75:17, 76:14, 83:23, 84:2 millions [1] - 41:20 mind [7] - 20:14, 41:19, 52:7, 54:6, 67:15, 72:17, 78:7 minds [1] - 36:4 mining [1] - 52:16 minister [1] - 75:21 minute [2] - 6:4, 20:16 minutes [2] - 5:21, 6:3 miss [1] - 35:7 misses [1] - 24:18 missile [2] - 57:1, 57:15 mission [1] - 84:13 mistake [1] - 37:20 Misters [1] - 36:20 mitigation [5] - 15:1, 15:7, 28:19, 28:24, 45:6 MMS [1] - 76:6 MMTA [9] - 29:7, 32:17, 33:4, 33:10, 33:24, 34:4, 34:9,</p>
---	---	---	--	--

<p>35:22, 76:17 model [1] - 47:14 models [1] - 50:24 modification [1] - 84:22 modified [1] - 23:24 Monday [1] - 5:6 money [4] - 64:14, 64:15, 73:8, 85:23 monitoring [3] - 47:11, 47:15, 47:16 month [1] - 29:3 months [2] - 19:8, 64:22 monuments [1] - 89:16 MOP [8] - 44:24, 45:9, 45:17, 46:4, 47:8, 47:20, 48:3, 48:16 MORIARTY [2] - 69:5, 69:23 Moriarty [2] - 2:22, 69:4 most [11] - 7:5, 21:23, 22:1, 29:15, 51:16, 72:5, 80:22, 81:12, 83:14, 86:17, 86:22 Most [1] - 37:12 mother [1] - 65:13 Motley [2] - 2:21, 65:10 MOTLEY [1] - 65:12 move [5] - 17:17, 19:21, 20:2, 42:24, 90:7 moves [2] - 42:14, 81:8 moving [2] - 52:14, 78:20 MR [57] - 4:4, 6:24, 18:11, 19:19, 26:3, 26:9, 29:4, 29:8, 29:9, 29:10, 31:23, 32:4, 32:16, 32:20, 35:4, 35:6, 35:7, 35:11, 36:17, 36:19, 39:21, 39:24, 40:16, 40:24, 41:1, 41:4, 43:20, 43:22, 48:17, 48:18, 51:5, 51:8, 54:9, 58:8, 58:10, 59:21, 59:23, 65:10, 65:12, 69:1, 69:2, 69:3, 69:5, 69:23, 71:20, 77:5, 81:24, 82:3, 82:6, 87:2, 87:9, 88:17, 90:13, 90:16, 92:7, 92:9, 92:12</p>	<p>MS [8] - 20:20, 26:7, 26:11, 54:11, 71:22, 77:8, 82:8, 88:18 multi [9] - 10:9, 21:17, 27:19, 27:20, 46:5, 47:1, 79:3, 80:23, 89:8 multi-layered [1] - 89:8 multi-use [8] - 10:9, 21:17, 27:19, 27:20, 46:5, 47:1, 79:3, 80:23 multiuse [1] - 45:17 must [10] - 7:13, 7:18, 8:5, 22:9, 24:17, 30:13, 43:15, 52:18, 53:7</p> <p style="text-align: center;">N</p> <p>name [17] - 4:21, 18:12, 20:4, 20:5, 20:21, 29:6, 32:19, 37:1, 41:4, 51:12, 54:11, 59:23, 64:11, 90:16 named [1] - 63:10 names [1] - 20:6 Nantucket [32] - 11:2, 11:8, 29:11, 30:2, 30:4, 31:1, 34:16, 35:20, 37:13, 40:6, 40:10, 40:14, 41:19, 51:14, 51:20, 52:13, 53:22, 54:1, 54:2, 54:13, 54:17, 54:18, 54:21, 54:22, 55:13, 57:4, 57:11, 57:13, 58:5, 84:10, 86:7, 86:8 narrowly [1] - 21:18 nation [2] - 21:13, 76:8 national [4] - 30:3, 41:21, 73:17, 89:15 National [4] - 9:24, 29:19, 47:3, 63:4 natural [6] - 12:9, 39:3, 44:22, 45:2, 82:19, 83:16 nature [1] - 39:11 nautical [3] - 53:6, 55:24, 67:6 navigable [1] - 52:17 navigate [2] - 36:6, 53:8 navigating [1] - 36:2 navigation [4] - 39:4,</p>	<p>39:7, 52:11, 57:3 near [3] - 15:12, 25:14, 53:4 Near [1] - 59:5 near-term [2] - 15:12, 25:14 nearby [1] - 38:5 nearly [2] - 33:10, 60:23 Ned [3] - 2:16, 43:21, 48:18 need [36] - 15:6, 15:22, 16:1, 17:21, 31:7, 37:11, 39:11, 41:23, 46:20, 47:13, 47:21, 48:2, 55:18, 56:10, 64:23, 65:5, 65:6, 67:12, 70:11, 79:13, 83:17, 83:18, 86:3, 86:20, 87:23, 88:1, 89:2, 89:15, 89:16, 89:17, 89:19 needed [5] - 50:2, 61:13, 61:15, 64:2 needs [15] - 16:9, 24:12, 29:16, 38:7, 38:17, 45:22, 47:10, 48:12, 56:16, 57:24, 67:11, 81:7, 84:5, 86:7, 86:8 negative [1] - 15:2 neighbors [1] - 63:5 Neil [4] - 2:13, 36:18, 39:22, 40:1 net [1] - 76:11 networks [1] - 50:20 never [3] - 66:14, 70:1, 85:16 new [11] - 11:14, 11:15, 21:2, 27:14, 27:15, 27:21, 43:1, 67:10, 75:24, 79:2, 85:10 New [5] - 5:6, 20:24, 42:18, 46:14, 75:2 News [1] - 75:15 next [8] - 5:8, 6:20, 19:24, 26:10, 35:9, 51:5, 77:6, 79:19 NGOs [1] - 46:22 nice [2] - 51:22, 65:14 night [6] - 5:6, 5:7, 83:22, 84:2, 85:3, 85:4 nights [1] - 84:19 nine [2] - 75:11, 75:17 Nixon [1] - 73:5 NOAA [2] - 44:18,</p>	<p>46:17 nobody [1] - 70:12 Nomans [2] - 10:6, 10:15 non [2] - 20:22, 48:24 non-profit [2] - 20:22, 48:24 nondisclosure [2] - 73:5, 73:9 Norcross [2] - 3:6, 88:18 NORCROSS [1] - 88:18 north [2] - 35:16, 52:15 Northeast [1] - 44:19 Notary [2] - 93:7, 93:20 note [1] - 15:10 noted [1] - 10:22 notes [3] - 31:3, 31:14 nothing [3] - 43:1, 61:18, 62:10 Nothing [1] - 68:22 notice [1] - 6:5 notify [1] - 42:22 nourishment [1] - 8:4 November [3] - 5:10, 16:18, 44:2 nowhere [1] - 86:10 Number [1] - 49:22 number [5] - 7:23, 32:1, 50:19, 73:15, 84:2 numerous [1] - 79:21 nuts [1] - 14:13</p> <p style="text-align: center;">O</p> <p>O'Leary [10] - 2:5, 8:12, 17:1, 18:11, 18:20, 19:7, 29:13, 36:19, 59:1, 65:21 O'LEARY [1] - 17:3 O'Neil [1] - 6:18 obey [1] - 64:24 objecting [1] - 72:11 objection [1] - 72:2 objective [2] - 23:18, 24:13 obligation [2] - 22:11, 22:16 observation [2] - 32:5, 44:11 obsolete [1] - 90:24</p>	<p>obstructions [2] - 52:20, 53:4 obviated [1] - 37:19 obviously [4] - 14:8, 14:11, 16:10, 68:20 occupies [1] - 10:10 occupy [1] - 10:3 occurring [1] - 46:18 occurs [1] - 78:5 ocean [15] - 20:24, 21:14, 21:17, 28:7, 40:21, 45:2, 55:9, 58:5, 82:11, 85:21, 86:8, 89:19, 90:1, 90:6 OCEAN [2] - 1:7, 1:17 Ocean [43] - 1:23, 4:7, 4:8, 4:18, 7:8, 7:12, 7:20, 7:21, 7:22, 7:23, 9:22, 14:18, 14:20, 16:3, 16:12, 18:15, 21:7, 22:15, 23:21, 25:22, 26:16, 27:2, 27:12, 28:14, 29:13, 31:4, 33:2, 33:12, 40:4, 44:8, 47:18, 48:9, 49:8, 49:15, 50:7, 51:16, 52:7, 66:9, 78:9, 78:23, 80:14, 87:11, 87:14 oceans [4] - 17:8, 44:23, 81:12, 88:22 Oceans [32] - 1:22, 4:16, 4:22, 6:8, 6:10, 6:22, 7:6, 7:11, 7:14, 8:6, 8:9, 8:10, 8:14, 8:16, 8:21, 9:3, 9:19, 14:23, 21:24, 22:10, 23:5, 23:14, 23:18, 26:23, 28:18, 39:10, 40:7, 40:20, 40:22, 49:10, 55:20 October [1] - 25:23 OEC [1] - 6:13 OF [2] - 1:2, 1:3 off-limits [1] - 39:4 off-shore [3] - 59:9, 60:15, 61:24 offer [1] - 49:11 OFFICE [1] - 1:3 Office [7] - 4:14, 22:11, 33:2, 44:1, 46:19, 58:15, 77:10 office [2] - 11:5, 65:20 offices [1] - 44:6 officials [1] - 6:13 offset [2] - 57:20,</p>
--	---	--	--	--

<p>57:21 offshore [6] - 9:24, 23:23, 24:22, 25:10, 89:11, 91:4 oil [3] - 41:14, 83:5, 83:12 old [1] - 62:24 OLIVIERI [1] - 41:4 Olivieri [4] - 2:14, 39:23, 41:2, 41:5 once [3] - 60:19, 60:20, 66:14 one [31] - 10:23, 10:24, 15:16, 18:20, 19:13, 21:23, 22:1, 28:9, 31:10, 31:12, 37:22, 38:7, 41:24, 43:2, 55:13, 55:24, 63:17, 64:5, 66:14, 67:6, 68:6, 70:4, 76:15, 83:22, 84:2, 85:16, 85:21 One [10] - 9:6, 12:6, 15:14, 38:16, 44:13, 46:3, 49:14, 60:17, 62:10, 90:19 one-on-one [1] - 19:13 ones [4] - 17:23, 63:22, 68:8, 86:21 open [3] - 5:9, 6:23, 89:17 opened [1] - 5:11 opening [1] - 5:19 operates [1] - 42:11 operating [2] - 52:11, 62:22 operation [4] - 60:17, 60:20, 76:9, 92:2 operational [1] - 46:24 opinions [1] - 17:11 opportunities [1] - 24:7 opportunity [23] - 5:23, 15:12, 16:5, 20:15, 21:6, 24:19, 26:1, 29:12, 33:1, 36:21, 39:17, 40:1, 40:2, 51:15, 54:13, 58:11, 60:1, 65:12, 69:6, 71:22, 77:3, 81:21, 82:10 opposed [1] - 74:18 option [1] - 52:15 order [4] - 6:15, 15:4, 55:16, 58:1 organization [3] - 16:4, 20:23, 73:7</p>	<p>organizations [2] - 46:22, 77:12 organize [1] - 46:21 original [2] - 40:8, 40:11 Oslo [1] - 91:17 Osterville [1] - 37:2 Otis [2] - 57:11, 57:16 outcome [1] - 45:16 outdated [2] - 62:24, 88:6 outer [2] - 41:8, 41:22 Outlining [2] - 49:24, 50:3 outreach [3] - 19:17, 47:24, 87:18 outside [3] - 23:8, 39:19, 40:18 outweighs [1] - 23:9 overall [3] - 9:19, 14:16, 37:7 overfished [1] - 46:16 overfishing [2] - 46:16, 46:18 overlap [1] - 80:24 overlay [1] - 7:21 overly [1] - 23:22 override [1] - 56:7 overriding [1] - 90:17 overrode [1] - 56:9 overruled [1] - 56:18 oversight [1] - 37:20 overturned [1] - 63:9 overview [1] - 60:11 overwhelming [1] - 72:14 own [5] - 39:15, 60:6, 65:4, 68:13, 72:17 owner [1] - 90:22</p>	<p>66:15 part [16] - 9:12, 23:6, 23:12, 32:10, 36:7, 40:6, 46:4, 46:10, 59:8, 59:14, 62:14, 68:7, 83:14, 84:12, 84:17, 91:9 participated [1] - 31:4 particular [7] - 7:19, 11:19, 12:8, 13:1, 13:12, 21:10, 50:18 particularly [4] - 10:21, 35:20, 37:13, 50:16 Partnership [5] - 6:10, 16:3, 76:14, 87:10, 87:17 parts [1] - 34:13 pass [1] - 63:7 passage [1] - 52:23 passed [2] - 51:18, 63:8 passengers [3] - 52:2, 53:2, 72:18 past [1] - 62:7 path [1] - 66:17 Patricia [2] - 93:6, 93:20 Patrick [1] - 72:15 patrol [1] - 38:23 Paul [1] - 73:10 PAVE [1] - 57:15 PAWS [1] - 57:15 pay [4] - 43:8, 67:20, 75:1, 76:4 paying [4] - 73:18, 74:18, 74:19, 86:5 Peabody [1] - 73:5 penalty [2] - 63:13, 63:14 people [17] - 18:24, 32:6, 43:6, 59:12, 59:13, 65:14, 70:9, 70:14, 71:5, 71:14, 73:21, 75:3, 75:11, 75:17, 82:23, 83:1, 92:4 people's [1] - 20:6 per [5] - 24:4, 30:21, 57:12, 74:11, 76:16 percent [10] - 10:1, 10:4, 10:10, 43:3, 59:2, 59:3, 75:5, 75:19, 76:3, 85:4 percentage [3] - 25:3, 80:12, 90:2 perfect [4] - 69:17, 69:18, 70:17, 74:22 performance [4] -</p>	<p>22:22, 23:6, 45:18, 47:12 perhaps [3] - 13:9, 20:9, 40:17 period [2] - 5:9, 5:11 permanent [2] - 39:3, 68:22 permit [3] - 56:10, 62:18, 65:2 permits [2] - 56:11, 61:13 permitting [2] - 23:1, 48:8 person [1] - 89:4 personal [1] - 62:13 perspective [1] - 18:5 Pete [1] - 6:17 Peter [5] - 2:20, 58:9, 59:21, 59:23, 65:15 phantom [2] - 73:18, 73:20 phase [2] - 16:14, 17:2 phenomena [1] - 45:1 physical [1] - 39:5 pick [1] - 4:5 piece [4] - 9:18, 14:16, 44:13, 86:18 pipelines [2] - 8:3, 12:5 pitting [1] - 24:6 place [13] - 64:14, 68:4, 68:13, 75:24, 76:21, 84:3, 84:4, 84:8, 86:9, 86:13, 86:21, 90:5 placed [3] - 30:20, 39:6, 49:10 placement [1] - 29:24 places [6] - 22:11, 22:18, 89:13, 89:15, 89:17 placing [1] - 53:1 Plan [123] - 4:7, 4:16, 5:2, 6:22, 7:8, 7:12, 7:18, 8:1, 8:5, 8:17, 8:18, 8:19, 8:24, 9:6, 9:10, 9:11, 9:12, 9:19, 9:22, 10:8, 10:12, 10:13, 11:1, 11:10, 11:16, 13:22, 13:24, 14:3, 14:4, 14:8, 14:9, 14:14, 14:18, 14:20, 15:16, 15:19, 16:13, 16:15, 16:21, 18:4, 18:5, 18:23, 19:17, 21:7, 21:15, 22:4,</p>	<p>22:6, 22:15, 23:22, 23:24, 24:4, 24:12, 24:20, 25:6, 25:19, 25:20, 25:22, 25:24, 26:17, 26:22, 27:2, 27:12, 27:15, 28:6, 28:15, 28:23, 29:13, 29:15, 29:19, 30:12, 30:16, 31:8, 33:2, 33:12, 35:13, 37:10, 37:17, 38:3, 38:16, 39:10, 40:7, 40:14, 40:17, 40:23, 44:8, 49:4, 49:8, 49:15, 49:20, 49:21, 49:22, 49:24, 50:7, 50:13, 50:19, 51:16, 52:7, 54:5, 55:1, 55:2, 55:22, 56:1, 56:20, 57:21, 58:11, 59:10, 71:23, 72:1, 72:4, 74:14, 77:13, 78:10, 78:14, 78:23, 79:9, 79:20, 79:21, 80:5, 81:15, 81:21, 87:15, 87:20 plan [32] - 9:21, 15:24, 19:4, 19:7, 19:9, 21:14, 28:21, 36:9, 49:12, 54:16, 54:20, 54:22, 55:16, 56:16, 58:1, 58:5, 66:3, 66:4, 70:19, 79:13, 80:19, 81:1, 81:7, 81:17, 81:22, 82:14, 82:15, 82:18, 83:14, 86:18, 88:11, 89:2 PLAN [2] - 1:7, 1:17 Plan's [1] - 24:16 planet [1] - 69:16 Planner [2] - 4:15, 26:12 Planning [2] - 6:8, 26:15 planning [16] - 10:1, 10:4, 10:10, 14:6, 27:21, 45:8, 45:15, 45:17, 59:9, 59:11, 59:15, 61:8, 61:11, 61:14, 66:9, 80:23 Plans [1] - 27:23 plans [6] - 45:24, 49:4, 51:11, 55:11, 55:14, 81:9 plants [1] - 89:4 platforms [1] - 31:19 play [2] - 12:22, 41:15 playing [1] - 24:19</p>
P				
	<p>P.M [1] - 1:14 p.m [3] - 4:2, 16:18, 92:18 page [2] - 5:16, 6:10 Page(s) [2] - 2:2, 3:2 paid [1] - 25:4 painful [1] - 17:23 pants [1] - 89:4 parallel [1] - 49:24 PARKER [1] - 54:11 Parker [5] - 2:18, 51:7, 54:10, 54:11,</p>			

<p>plays [1] - 45:10</p> <p>pleased [2] - 61:6, 82:14</p> <p>pleasure [1] - 18:19</p> <p>plumage [1] - 63:6</p> <p>plunged [1] - 75:18</p> <p>plunging [1] - 85:19</p> <p>plus [2] - 62:6, 76:22</p> <p>poetry [1] - 70:17</p> <p>point [9] - 20:10, 31:8, 58:22, 76:1, 76:22, 77:24, 78:14, 90:10, 91:4</p> <p>pointing [2] - 31:6, 64:1</p> <p>points [2] - 12:6, 53:4</p> <p>pole [1] - 53:14</p> <p>policies [1] - 47:4</p> <p>policy [2] - 21:11, 46:3</p> <p>Policy [2] - 18:13, 24:21</p> <p>political [1] - 65:3</p> <p>poor [2] - 47:10, 53:19</p> <p>populations [1] - 85:19</p> <p>portions [2] - 16:7, 34:16</p> <p>ports [1] - 52:4</p> <p>posed [1] - 57:18</p> <p>position [1] - 64:6</p> <p>positions [1] - 42:23</p> <p>possible [2] - 33:22, 60:15</p> <p>possibly [1] - 10:19</p> <p>post [1] - 32:12</p> <p>posted [2] - 6:1, 6:9</p> <p>potential [10] - 16:20, 27:1, 27:8, 28:7, 39:12, 39:15, 50:4, 52:6, 52:10, 79:10</p> <p>potentially [1] - 12:10</p> <p>poverty [2] - 75:10, 75:18</p> <p>power [7] - 36:1, 36:5, 40:7, 43:1, 43:5, 43:6, 75:24</p> <p>powerboat [1] - 34:21</p> <p>powered [1] - 42:19</p> <p>powering [1] - 43:3</p> <p>POWERS [1] - 82:8</p> <p>Powers [3] - 3:4, 82:6, 82:8</p> <p>practicability [1] - 13:4</p>	<p>practicable [4] - 22:24, 79:11, 79:15, 79:16</p> <p>practical [2] - 22:21, 27:22</p> <p>practice [2] - 15:5, 15:13</p> <p>praise [1] - 77:16</p> <p>precious [1] - 81:12</p> <p>predictability [1] - 24:15</p> <p>predicted [1] - 45:12</p> <p>preferred [3] - 46:5, 46:11, 47:1</p> <p>prepare [1] - 50:11</p> <p>prepared [4] - 32:1, 32:6, 32:9, 47:23</p> <p>preparing [4] - 4:7, 35:12, 49:4</p> <p>present [5] - 22:14, 22:15, 58:16, 66:3, 76:12</p> <p>presentation [6] - 5:19, 6:22, 7:3, 7:16, 8:12, 58:17</p> <p>presented [1] - 36:10</p> <p>presents [1] - 21:16</p> <p>preservation [1] - 31:6</p> <p>Preservation [3] - 29:20, 29:22, 30:14</p> <p>Preserve [1] - 77:9</p> <p>preserve [2] - 41:21, 43:17</p> <p>president [4] - 19:6, 29:11, 63:10, 87:9</p> <p>President [1] - 41:17</p> <p>pressures [2] - 17:18, 17:19</p> <p>presumed [2] - 57:5, 72:9</p> <p>presumption [1] - 23:7</p> <p>pretty [6] - 17:10, 64:4, 65:17, 65:21, 84:1, 85:6</p> <p>prevalent [1] - 47:15</p> <p>prevent [1] - 53:16</p> <p>previous [1] - 27:16</p> <p>price [1] - 76:22</p> <p>primary [1] - 35:15</p> <p>principals [1] - 49:14</p> <p>priorities [1] - 7:19</p> <p>priority [1] - 9:16</p> <p>pristine [1] - 41:9</p> <p>private [6] - 43:7, 44:15, 44:16, 65:2, 67:14, 88:10</p> <p>privately [1] - 16:4</p> <p>proactive [1] - 47:21</p>	<p>probability [1] - 57:8</p> <p>problem [1] - 37:21</p> <p>problems [1] - 60:10</p> <p>procedures [1] - 53:18</p> <p>proceedings [1] - 93:10</p> <p>process [30] - 6:8, 12:13, 14:19, 21:12, 30:19, 45:8, 45:10, 45:15, 47:5, 47:14, 47:22, 47:24, 48:1, 49:23, 50:5, 50:15, 55:10, 59:11, 59:15, 65:2, 65:3, 66:2, 67:16, 71:15, 71:17, 83:21, 88:20, 89:1, 89:6, 90:22</p> <p>processes [1] - 91:18</p> <p>produce [1] - 74:21</p> <p>produced [1] - 21:13</p> <p>producer [1] - 58:23</p> <p>producing [2] - 29:14, 42:11</p> <p>product [1] - 73:8</p> <p>production [1] - 59:3</p> <p>products [1] - 62:19</p> <p>professional [1] - 12:20</p> <p>Professional [1] - 93:6</p> <p>profit [2] - 20:22, 48:24</p> <p>Program [1] - 8:20</p> <p>program [3] - 11:15, 12:4, 47:11</p> <p>programs [1] - 15:22</p> <p>prohibited [1] - 9:23</p> <p>Project [1] - 72:10</p> <p>project [27] - 11:22, 11:23, 13:5, 14:14, 14:17, 15:2, 15:10, 15:11, 17:14, 22:21, 23:10, 24:24, 29:23, 30:19, 39:19, 50:14, 56:7, 66:19, 68:7, 71:3, 72:7, 73:18, 73:20, 75:5, 83:9, 91:15</p> <p>project-by-project [1] - 22:21</p> <p>projected [1] - 31:12</p> <p>projects [25] - 14:13, 15:8, 22:17, 23:2, 23:23, 24:1, 24:3, 24:10, 24:17, 25:4, 25:6, 25:8, 25:14, 25:17, 27:6, 43:18, 47:17, 52:6, 52:17,</p>	<p>55:22, 56:1, 56:14, 67:5, 70:3, 88:9</p> <p>promised [1] - 39:1</p> <p>promoting [1] - 21:2</p> <p>promulgate [1] - 19:9</p> <p>promulgation [1] - 29:17</p> <p>pronounce [2] - 20:4, 20:5</p> <p>properly [5] - 20:4, 22:10, 23:12, 31:7, 31:15</p> <p>properties [1] - 90:23</p> <p>proponents [1] - 50:14</p> <p>proposal [4] - 14:20, 41:15, 41:16, 72:11</p> <p>proposals [2] - 13:23, 39:11</p> <p>proposed [13] - 11:14, 15:10, 15:24, 22:17, 22:22, 24:9, 24:16, 27:17, 33:2, 52:17, 53:3, 56:6, 57:6</p> <p>PROPOSED [1] - 1:17</p> <p>proposes [3] - 14:1, 27:15, 72:12</p> <p>proposing [2] - 11:22, 60:11</p> <p>protect [16] - 8:6, 22:2, 22:7, 22:13, 23:4, 23:13, 55:16, 63:7, 68:9, 70:12, 70:13, 70:14, 86:21, 89:18, 89:19, 89:21</p> <p>Protect [2] - 29:11, 54:12</p> <p>protected [6] - 22:9, 45:23, 58:7, 82:20, 84:5, 86:7</p> <p>protecting [3] - 20:24, 23:17, 84:12</p> <p>protection [14] - 9:9, 11:11, 21:20, 28:9, 45:20, 45:24, 64:10, 79:2, 79:6, 80:22, 81:14, 82:15, 83:21, 86:18</p> <p>Protection [1] - 27:5</p> <p>protections [1] - 55:20</p> <p>protective [3] - 11:14, 80:16, 81:18</p> <p>protectors [1] - 83:16</p> <p>protocol [1] - 40:19</p>	<p>proven [1] - 25:11</p> <p>provide [11] - 15:12, 26:1, 44:7, 45:24, 47:15, 51:19, 54:14, 57:11, 58:11, 59:16, 80:21</p> <p>provided [6] - 34:10, 34:12, 40:14, 58:20, 74:8, 92:14</p> <p>provides [1] - 45:15</p> <p>providing [8] - 26:14, 39:24, 40:2, 43:11, 49:23, 69:10, 69:15, 70:21</p> <p>Province [1] - 43:3</p> <p>Provincetown [2] - 34:15, 48:21</p> <p>provisional [2] - 10:16, 25:18</p> <p>provisions [2] - 21:24, 88:10</p> <p>Public [5] - 4:6, 18:13, 88:7, 93:7, 93:20</p> <p>public [38] - 4:11, 4:12, 5:1, 5:5, 5:11, 5:18, 5:20, 6:6, 6:9, 6:23, 14:22, 16:10, 17:2, 17:13, 17:20, 18:6, 18:23, 19:12, 19:16, 19:21, 21:12, 22:8, 22:12, 23:9, 37:3, 43:8, 47:18, 47:21, 47:22, 56:20, 57:23, 58:6, 67:8, 72:6, 73:12, 76:4, 88:7, 89:6</p> <p>publicize [1] - 92:1</p> <p>published [3] - 5:3, 84:15, 84:16</p> <p>purchase [1] - 44:15</p> <p>purchasing [1] - 44:14</p> <p>purporting [1] - 38:8</p> <p>purpose [2] - 18:1, 37:17</p> <p>purposes [1] - 28:10</p> <p>pursuant [1] - 7:20</p> <p>pursuing [1] - 21:4</p> <p>put [10] - 15:3, 15:4, 15:12, 60:4, 68:16, 68:18, 87:13, 90:20, 90:23, 91:6</p> <p>puts [2] - 13:22, 71:21</p> <p>putting [6] - 9:15, 25:19, 42:2, 67:5, 84:9, 91:15</p>
---	--	---	---	---

Q	<p>reason [1] - 58:18 reasonable [1] - 53:18 rebuttable [1] - 23:7 receive [1] - 25:3 received [1] - 73:7 receiving [1] - 92:13 recent [2] - 44:18, 61:2 recently [1] - 83:4 recognizable [1] - 84:21 recognize [5] - 6:16, 31:21, 37:18, 63:19, 77:17 recognized [1] - 38:10 recognizes [2] - 11:1, 64:18 recognizing [1] - 49:9 recommend [5] - 23:3, 23:6, 24:20, 27:10, 59:10 recommendation [1] - 79:7 recommendations [1] - 49:11 recommending [1] - 49:9 recommends [3] - 27:3, 28:12, 28:21 record [3] - 26:7, 32:10, 77:18 recorded [1] - 93:10 recording [3] - 32:2, 32:7, 32:8 recreation [1] - 37:9 recreational [12] - 13:14, 33:13, 34:1, 34:3, 34:6, 34:13, 34:17, 35:15, 36:5, 38:5, 76:17, 81:1 rectangle [1] - 11:7 red [1] - 46:12 reduce [3] - 21:4, 57:8, 72:23 reduced [2] - 73:1, 93:12 REF [1] - 75:16 refer [1] - 29:21 reference [2] - 53:5, 74:6 referenced [2] - 63:15 refers [1] - 63:3 refining [1] - 49:23 reflects [2] - 10:16, 49:5 regard [1] - 45:3</p>	<p>regarding [3] - 13:23, 14:12, 73:6 regardless [1] - 39:13 region [5] - 28:11, 30:2, 45:18, 46:19, 57:10 Regional [2] - 4:20, 61:14 regional [7] - 14:6, 14:12, 33:9, 50:6, 50:23, 61:7, 61:11 regionally [2] - 49:1, 50:20 regulate [1] - 56:4 regulations [10] - 7:13, 8:22, 9:1, 15:4, 27:2, 27:4, 27:11, 52:8, 65:6, 91:4 regulators [1] - 65:7 Regulatory [1] - 74:23 regulatory [8] - 11:16, 15:21, 27:6, 28:1, 50:1, 50:3, 50:5, 50:14 reinforce [2] - 34:9, 58:19 reiterate [1] - 16:17 relate [1] - 14:18 related [5] - 10:12, 27:13, 33:10, 39:14, 45:9 Relations [1] - 18:13 relationship [1] - 16:6 relative [2] - 37:8, 74:7 relatively [1] - 25:9 reliability [1] - 75:7 reliable [3] - 51:19, 74:21, 74:23 remaining [1] - 10:9 remains [1] - 8:22 remarks [1] - 16:16 remind [2] - 35:7, 41:16 reminder [3] - 7:5, 8:11, 8:21 reminds [1] - 89:24 removed [2] - 40:15, 90:24 removes [1] - 13:3 renewable [17] - 8:2, 10:5, 10:13, 10:14, 10:18, 10:20, 12:12, 13:1, 21:2, 21:22, 23:19, 24:23, 47:17, 48:8, 55:21, 75:22, 89:10</p>	<p>Renewable [3] - 11:6, 75:16, 81:5 repeat [1] - 31:8 Report [3] - 44:24, 46:17, 47:21 report [11] - 27:15, 27:17, 44:8, 44:9, 44:18, 45:13, 46:4, 47:8, 60:9, 75:21 Reporter [1] - 93:7 reports [1] - 45:14 represent [3] - 33:15, 35:13, 35:15 representation [2] - 34:5, 48:22 representations [1] - 35:19 Representative [2] - 6:17, 6:19 representatives [1] - 48:23 representing [2] - 43:22, 69:7 represents [1] - 33:4 request [2] - 54:15, 73:9 requests [2] - 58:3, 73:5 require [1] - 38:19 required [13] - 7:7, 7:11, 7:15, 8:6, 14:23, 15:3, 23:5, 23:13, 47:16, 47:24, 75:1, 75:5, 76:4 requirement [2] - 24:9, 24:16 requirements [2] - 23:1, 27:7 requires [5] - 8:9, 8:16, 23:15, 28:18, 72:24 research [3] - 15:21, 59:14, 62:17 reside [1] - 62:19 resident [2] - 41:5, 69:9 residents [1] - 44:11 resilience [1] - 45:6 resolve [1] - 61:17 resolved [3] - 30:6, 50:7, 54:15 resource [9] - 27:24, 28:3, 40:13, 49:2, 50:11, 76:8, 79:22, 81:3, 81:12 Resource [1] - 1:23 Resources [2] - 48:9, 48:10 resources [35] - 11:12, 11:13, 12:9,</p>	<p>21:21, 22:3, 22:7, 22:9, 22:13, 23:10, 23:11, 24:8, 27:19, 28:5, 28:8, 28:9, 28:13, 45:21, 48:13, 49:17, 49:18, 54:24, 75:23, 78:3, 78:6, 78:13, 78:16, 79:3, 79:10, 80:3, 80:22, 81:9, 81:18, 82:20, 83:17, 84:12 respect [3] - 23:23, 24:3, 25:5 respectfully [3] - 31:8, 54:15, 58:3 respond [1] - 18:6 response [2] - 16:19, 82:5 Response [1] - 92:11 responsibility [1] - 81:13 responsible [5] - 21:2, 23:19, 25:12, 25:16, 45:11 restoration [1] - 49:21 restore [2] - 41:23, 49:18 restrictive [1] - 23:22 result [4] - 28:2, 30:10, 52:24, 79:6 resulted [1] - 9:5 resulting [2] - 15:2, 55:22 results [4] - 9:4, 67:13, 80:9, 80:20 return [1] - 76:8 returned [1] - 31:18 revenues [1] - 25:4 reversed [1] - 64:6 review [9] - 26:24, 27:6, 29:23, 30:18, 34:8, 50:1, 50:5, 64:1, 65:2 reviewing [4] - 6:11, 7:10, 26:16, 73:14 revise [3] - 23:3, 23:14, 25:24 revised [1] - 24:20 Rhode [1] - 76:15 rich [2] - 13:20, 47:9 Richard [2] - 77:7, 82:1 rights [1] - 46:22 risk [1] - 53:2 risks [2] - 24:6, 58:2 River [2] - 10:24, 42:18 ROAD [1] - 1:13 road [4] - 10:20,</p>
R	<p>race [1] - 36:2 racing [2] - 34:20, 34:21 radar [13] - 38:3, 38:12, 53:5, 53:15, 56:22, 56:24, 57:3, 57:7, 57:18, 57:19, 73:15, 83:23, 88:7 Radar [1] - 57:23 radars [1] - 53:10 raise [2] - 6:2, 87:6 raises [1] - 14:7 ranks [1] - 42:21 rant [1] - 60:6 rate [1] - 83:11 rates [1] - 53:14 rather [6] - 16:14, 25:19, 47:22, 75:23, 84:23, 86:2 reach [1] - 76:22 reacting [1] - 89:4 read [5] - 29:5, 29:6, 80:8, 84:14, 92:5 reading [3] - 32:1, 32:6, 80:5 ready [2] - 68:21, 72:5 really [27] - 8:1, 9:5, 9:19, 36:4, 36:7, 36:9, 36:10, 36:15, 40:2, 42:15, 64:17, 64:18, 72:16, 78:22, 79:20, 80:6, 80:10, 82:16, 82:18, 83:17, 83:21, 84:11, 88:1, 88:23, 90:4, 91:6</p>	<p>race [1] - 36:2 racing [2] - 34:20, 34:21 radar [13] - 38:3, 38:12, 53:5, 53:15, 56:22, 56:24, 57:3, 57:7, 57:18, 57:19, 73:15, 83:23, 88:7 Radar [1] - 57:23 radars [1] - 53:10 raise [2] - 6:2, 87:6 raises [1] - 14:7 ranks [1] - 42:21 rant [1] - 60:6 rate [1] - 83:11 rates [1] - 53:14 rather [6] - 16:14, 25:19, 47:22, 75:23, 84:23, 86:2 reach [1] - 76:22 reacting [1] - 89:4 read [5] - 29:5, 29:6, 80:8, 84:14, 92:5 reading [3] - 32:1, 32:6, 80:5 ready [2] - 68:21, 72:5 really [27] - 8:1, 9:5, 9:19, 36:4, 36:7, 36:9, 36:10, 36:15, 40:2, 42:15, 64:17, 64:18, 72:16, 78:22, 79:20, 80:6, 80:10, 82:16, 82:18, 83:17, 83:21, 84:11, 88:1, 88:23, 90:4, 91:6</p>	<p>regarding [3] - 13:23, 14:12, 73:6 regardless [1] - 39:13 region [5] - 28:11, 30:2, 45:18, 46:19, 57:10 Regional [2] - 4:20, 61:14 regional [7] - 14:6, 14:12, 33:9, 50:6, 50:23, 61:7, 61:11 regionally [2] - 49:1, 50:20 regulate [1] - 56:4 regulations [10] - 7:13, 8:22, 9:1, 15:4, 27:2, 27:4, 27:11, 52:8, 65:6, 91:4 regulators [1] - 65:7 Regulatory [1] - 74:23 regulatory [8] - 11:16, 15:21, 27:6, 28:1, 50:1, 50:3, 50:5, 50:14 reinforce [2] - 34:9, 58:19 reiterate [1] - 16:17 relate [1] - 14:18 related [5] - 10:12, 27:13, 33:10, 39:14, 45:9 Relations [1] - 18:13 relationship [1] - 16:6 relative [2] - 37:8, 74:7 relatively [1] - 25:9 reliability [1] - 75:7 reliable [3] - 51:19, 74:21, 74:23 remaining [1] - 10:9 remains [1] - 8:22 remarks [1] - 16:16 remind [2] - 35:7, 41:16 reminder [3] - 7:5, 8:11, 8:21 reminds [1] - 89:24 removed [2] - 40:15, 90:24 removes [1] - 13:3 renewable [17] - 8:2, 10:5, 10:13, 10:14, 10:18, 10:20, 12:12, 13:1, 21:2, 21:22, 23:19, 24:23, 47:17, 48:8, 55:21, 75:22, 89:10</p>	<p>21:21, 22:3, 22:7, 22:9, 22:13, 23:10, 23:11, 24:8, 27:19, 28:5, 28:8, 28:9, 28:13, 45:21, 48:13, 49:17, 49:18, 54:24, 75:23, 78:3, 78:6, 78:13, 78:16, 79:3, 79:10, 80:3, 80:22, 81:9, 81:18, 82:20, 83:17, 84:12 respect [3] - 23:23, 24:3, 25:5 respectfully [3] - 31:8, 54:15, 58:3 respond [1] - 18:6 response [2] - 16:19, 82:5 Response [1] - 92:11 responsibility [1] - 81:13 responsible [5] - 21:2, 23:19, 25:12, 25:16, 45:11 restoration [1] - 49:21 restore [2] - 41:23, 49:18 restrictive [1] - 23:22 result [4] - 28:2, 30:10, 52:24, 79:6 resulted [1] - 9:5 resulting [2] - 15:2, 55:22 results [4] - 9:4, 67:13, 80:9, 80:20 return [1] - 76:8 returned [1] - 31:18 revenues [1] - 25:4 reversed [1] - 64:6 review [9] - 26:24, 27:6, 29:23, 30:18, 34:8, 50:1, 50:5, 64:1, 65:2 reviewing [4] - 6:11, 7:10, 26:16, 73:14 revise [3] - 23:3, 23:14, 25:24 revised [1] - 24:20 Rhode [1] - 76:15 rich [2] - 13:20, 47:9 Richard [2] - 77:7, 82:1 rights [1] - 46:22 risk [1] - 53:2 risks [2] - 24:6, 58:2 River [2] - 10:24, 42:18 ROAD [1] - 1:13 road [4] - 10:20,</p>

<p>53:8, 53:14, 53:18 Rob [1] - 8:12 Robert [1] - 2:10 robust [1] - 81:16 role [6] - 14:9, 14:10, 16:10, 16:11, 55:19, 58:13 Ron [2] - 82:4 room [4] - 69:17, 69:20, 73:21, 75:3 ROONEY [2] - 26:7, 26:11 Rooney [4] - 2:8, 20:18, 26:8, 26:11 rotating [1] - 56:23 roughly [2] - 13:2, 57:22 routes [4] - 34:2, 34:23, 35:21, 53:13 routine [1] - 39:7 royal [1] - 67:10 RPA [1] - 24:4 RPAs [1] - 14:9 ruining [1] - 91:11 rule [1] - 20:16 rules [7] - 17:17, 53:8, 53:14, 53:17, 63:16, 63:19, 65:5 run [1] - 51:23 running [4] - 6:5, 41:12, 61:10, 65:21 rush [1] - 90:8 rushed [1] - 89:9</p>	<p>sanity [2] - 71:16 Sarah [1] - 6:17 satisfactory [1] - 37:8 scale [9] - 13:23, 14:3, 14:17, 21:22, 23:19, 25:5, 30:9, 65:23, 80:11 Scale [1] - 81:5 scenic [4] - 28:4, 28:8, 28:13, 81:8 science [8] - 9:12, 15:21, 16:7, 66:11, 67:9, 67:10, 88:3, 88:6 Science [3] - 9:13, 16:12, 84:16 Scientific [1] - 47:19 scope [1] - 39:10 screening [1] - 56:21 sea [2] - 42:7, 46:12 seafood [1] - 46:23 Seashore [1] - 10:1 seashore [1] - 41:21 seat [2] - 18:15, 89:3 second [5] - 21:21, 27:13, 54:1, 58:17, 78:24 Secondly [1] - 55:18 Secretary [5] - 1:22, 4:22, 4:23, 7:7, 19:3 section [1] - 63:17 secure [1] - 75:24 security [4] - 38:17, 38:19, 38:24, 39:11 see [24] - 8:1, 11:7, 11:9, 11:19, 14:19, 20:1, 39:9, 43:7, 47:12, 61:19, 62:23, 62:24, 64:9, 64:14, 67:12, 67:13, 68:15, 68:20, 68:21, 74:1, 82:17, 87:3, 87:5 seeing [2] - 64:15, 78:19 seek [1] - 24:7 seeking [2] - 36:22, 47:22 seem [1] - 73:24 seemingly [1] - 37:19 seize [2] - 43:8, 53:19 SENATOR [1] - 17:3 Senator [15] - 2:5, 8:12, 8:14, 17:1, 18:11, 18:20, 19:7, 19:19, 29:13, 36:19, 58:24, 65:21, 65:22, 69:5, 87:11</p>	<p>sense [1] - 78:12 sensitive [8] - 11:12, 20:6, 22:2, 27:18, 28:2, 40:13, 79:3, 88:12 Sensitive [2] - 8:7, 21:20 sent [1] - 63:24 separation [1] - 53:6 SEPTEMBER [1] - 1:10 September [1] - 93:10 serenity [2] - 89:14, 89:17 series [1] - 5:1 serious [5] - 54:5, 56:13, 57:24, 84:12, 86:15 serve [4] - 15:1, 18:19, 39:8, 58:14 serves [1] - 37:2 service [2] - 51:19, 53:1 servicing [1] - 91:23 session [1] - 19:21 sessions [2] - 6:7, 19:13 Sesuit [1] - 34:14 set [8] - 14:24, 16:13, 24:19, 24:21, 25:2, 25:15, 91:12, 91:19 setback [1] - 66:20 sets [3] - 9:10, 9:19, 24:4 seven [1] - 62:1 Seven [1] - 62:2 Seventeen [1] - 73:14 seventh [1] - 58:23 Several [1] - 65:18 several [3] - 27:3, 34:8, 54:14 shaft [1] - 91:7 Shame [1] - 43:14 Shanghai [1] - 61:4 Share [1] - 82:10 sharing [2] - 24:22, 25:1 Sharon [5] - 2:8, 20:18, 26:8, 26:9, 26:11 shelf [2] - 44:19, 91:4 shellfish [2] - 58:24, 78:7 shifting [1] - 45:1 shifts [1] - 44:20 Shoal [2] - 30:1, 30:20</p>	<p>shore [12] - 30:8, 30:10, 35:16, 42:3, 56:1, 59:5, 59:7, 59:9, 60:15, 61:24, 66:21 shoreline [2] - 34:14, 90:2 short [4] - 34:21, 44:7, 80:11, 87:21 shorter [1] - 85:14 Shorthand [1] - 93:6 shot [1] - 9:15 show [3] - 10:12, 22:23, 92:7 Show [1] - 92:6 shown [2] - 34:18, 57:2 shows [1] - 44:20 shut [1] - 47:18 sick [1] - 86:3 side [3] - 67:19, 68:4, 68:12 sides [1] - 13:17 Sierra [4] - 43:23, 43:24, 46:9, 47:3 sight [2] - 42:8, 57:17 signed [6] - 6:15, 7:4, 20:11, 64:5, 74:10, 87:5 significant [4] - 23:11, 49:1, 52:10, 77:17 similar [1] - 66:2 similarly [1] - 12:4 simple [1] - 40:3 Simply [1] - 52:14 simply [6] - 47:22, 51:21, 58:16, 59:7, 59:16, 61:10 sincerely [1] - 36:22 single [2] - 42:18, 42:21 sit [1] - 16:15 site [1] - 89:5 site's [1] - 47:16 sites [7] - 25:10, 25:11, 25:18, 30:2, 30:3, 30:12, 57:10 siting [13] - 7:19, 11:16, 21:21, 22:17, 23:4, 23:6, 23:15, 27:14, 27:15, 45:18, 55:19, 89:10, 89:13 Siting [8] - 52:15, 56:8, 56:19, 61:10, 61:18, 72:1, 74:20, 81:5 sitting [2] - 62:5, 69:20 six [1] - 62:1</p>	<p>size [1] - 81:8 slaughter [1] - 82:24 slide [1] - 19:22 slow [2] - 71:11, 71:15 slowly [1] - 42:24 small [4] - 57:9, 65:23, 80:11, 88:9 smart [1] - 61:23 so-called [2] - 21:21, 38:17 soccer [1] - 62:6 social [1] - 55:7 Society [2] - 18:14, 63:1 sole [1] - 67:2 solid [1] - 87:21 solitude [1] - 41:18 someone [1] - 82:11 somewhat [1] - 88:3 sorry [1] - 71:13 sort [3] - 11:7, 13:18, 15:15 sound [1] - 53:23 Sound [29] - 29:11, 30:2, 31:1, 34:16, 35:21, 37:13, 40:6, 40:14, 41:12, 41:19, 52:13, 53:23, 54:2, 54:13, 54:18, 54:19, 54:21, 54:22, 54:24, 55:13, 57:4, 57:13, 58:5, 69:9, 70:21, 84:10, 86:7, 86:8 Sound's [1] - 40:10 Sounds [1] - 64:4 source [2] - 13:10, 13:12 south [7] - 10:6, 10:23, 11:8, 35:16, 42:7, 52:15, 66:21 Southeastern [1] - 58:15 space [3] - 17:21, 68:1, 89:18 spans [1] - 54:19 spatial [2] - 12:15, 45:8 Spatial [1] - 4:15 Speaker [2] - 2:2, 3:2 speaker [3] - 27:16, 35:9, 51:5 SPEAKER [3] - 31:24, 32:15, 82:2 speakers [6] - 5:20, 6:14, 6:15, 32:1, 79:4, 89:20 Speaking [1] - 43:5 speaking [2] - 14:2, 48:19</p>
S				
<p>sad [1] - 65:17 safe [6] - 51:19, 52:11, 52:23, 53:6, 53:12, 66:20 safely [2] - 36:6, 53:8 safety [7] - 38:7, 39:6, 56:20, 57:23, 58:2, 72:6, 88:7 sail [1] - 36:1 sailboat [1] - 34:20 sailing [1] - 36:5 sails [1] - 34:21 sake [1] - 22:14 saltwater [1] - 46:8 Sanctuaries [3] - 7:20, 7:21, 7:22 sanctuaries [3] - 40:21, 55:21, 89:16 sanctuary [1] - 86:8 Sanctuary [3] - 7:24, 23:21, 40:4 sand [3] - 8:3, 11:22, 52:16</p>				

<p>special [9] - 11:12, 22:2, 27:18, 40:12, 45:23, 79:2, 80:16, 88:12</p> <p>Special [2] - 8:7, 21:20</p> <p>species [7] - 44:21, 46:1, 63:8, 78:20, 81:14, 83:2, 85:20</p> <p>specific [7] - 8:8, 9:7, 11:18, 14:12, 15:2, 22:1, 47:16</p> <p>specifically [3] - 22:13, 29:18, 37:12</p> <p>specifies [1] - 8:21</p> <p>speed [1] - 53:17</p> <p>spending [1] - 75:19</p> <p>spill [3] - 41:13, 83:5, 83:12</p> <p>Spillane [2] - 2:11, 35:10</p> <p>SPILLANE [1] - 35:11</p> <p>spin [1] - 42:12</p> <p>spirits [1] - 41:24</p> <p>spoken [7] - 20:13, 66:22, 66:24, 67:1, 87:5, 90:14, 92:10</p> <p>square [1] - 62:5</p> <p>SS [1] - 93:1</p> <p>SSU [5] - 23:9, 23:11, 23:14, 80:21, 80:24</p> <p>SSUs [13] - 21:21, 22:3, 22:5, 22:13, 22:18, 22:21, 23:4, 23:8, 23:13, 23:17, 45:3, 45:24</p> <p>staff [2] - 21:10, 29:14</p> <p>staffs [1] - 64:22</p> <p>stage [2] - 9:19, 25:15</p> <p>stake [2] - 38:14, 89:5</p> <p>stakeholders [4] - 19:14, 49:6, 66:12, 66:13</p> <p>stance [1] - 35:15</p> <p>stand [4] - 53:22, 62:4, 72:5, 75:4</p> <p>stand-still [1] - 53:22</p> <p>standard [10] - 11:14, 11:16, 22:17, 22:22, 23:6, 23:12, 23:15, 24:12, 27:22, 28:1</p> <p>standards [6] - 7:19, 9:8, 16:1, 23:4, 27:14, 27:16</p>	<p>standpoint [1] - 12:21</p> <p>start [3] - 17:22, 21:8, 59:24</p> <p>Start [1] - 86:19</p> <p>started [1] - 12:13</p> <p>state [8] - 16:2, 22:8, 23:2, 55:21, 66:9, 68:11, 74:22, 78:3</p> <p>State [39] - 8:16, 11:15, 14:18, 15:20, 18:23, 19:10, 22:20, 23:3, 23:20, 24:1, 27:3, 27:7, 30:9, 31:1, 38:21, 44:10, 45:22, 47:10, 47:23, 48:24, 50:5, 50:24, 54:19, 54:20, 54:23, 55:4, 55:8, 55:14, 55:15, 55:24, 56:7, 56:14, 64:24, 67:17, 67:23, 72:17, 74:4, 74:18, 81:17</p> <p>State's [4] - 4:8, 8:19, 44:5, 67:21</p> <p>State-Federal [1] - 67:23</p> <p>state-of-the-art [1] - 66:9</p> <p>statement [4] - 48:4, 50:11, 82:9, 84:14</p> <p>Statement [1] - 74:9</p> <p>statements [2] - 60:24, 79:21</p> <p>States [1] - 58:24</p> <p>states [4] - 24:23, 27:2, 55:2, 56:1</p> <p>stature [1] - 40:11</p> <p>status [3] - 44:19, 47:7, 49:17</p> <p>Status [1] - 46:17</p> <p>status-quo [1] - 49:17</p> <p>statute [1] - 5:10</p> <p>steamroller [1] - 61:11</p> <p>Steamship [4] - 51:14, 51:18, 54:4, 72:13</p> <p>stepping [1] - 40:18</p> <p>steps [1] - 56:7</p> <p>Steve [1] - 4:19</p> <p>stewardship [1] - 22:10</p> <p>Stewardship [1] - 46:11</p> <p>stick [1] - 20:15</p> <p>still [5] - 41:16, 42:10, 43:11, 53:22, 72:16</p>	<p>stock [2] - 46:15</p> <p>stop [2] - 67:17, 72:4</p> <p>stopping [1] - 78:14</p> <p>story [1] - 42:19</p> <p>strategies [2] - 45:7, 51:3</p> <p>strict [4] - 30:17, 63:14, 64:5</p> <p>stringent [1] - 22:24</p> <p>strobe [1] - 41:12</p> <p>strong [4] - 17:10, 42:9, 55:19, 56:17</p> <p>strongly [2] - 5:23, 23:3</p> <p>structure [3] - 38:18, 39:5, 39:14</p> <p>structures [4] - 38:4, 53:3, 53:7, 54:2</p> <p>struggled [1] - 17:9</p> <p>stubborn [1] - 76:1</p> <p>studied [3] - 55:1, 57:18, 86:17</p> <p>Studies [2] - 48:21, 57:2</p> <p>studies [4] - 85:5, 85:9, 85:11, 85:22</p> <p>study [1] - 53:9</p> <p>subcommittee [1] - 59:11</p> <p>subject [2] - 46:16, 56:2</p> <p>submit [6] - 32:3, 32:12, 34:8, 59:17, 64:17, 65:16</p> <p>submitted [1] - 34:3</p> <p>submitting [5] - 25:21, 26:18, 29:2, 43:24, 77:22</p> <p>subsidies [2] - 43:9, 76:4</p> <p>substantive [1] - 8:9</p> <p>substation [1] - 41:13</p> <p>success [1] - 42:18</p> <p>successful [1] - 25:16</p> <p>such-and-such [1] - 78:15</p> <p>sufficient [1] - 50:1</p> <p>suggest [3] - 59:10, 84:18, 91:6</p> <p>suggests [1] - 25:20</p> <p>suitable [4] - 10:19, 25:7, 25:13, 53:12</p> <p>summary [1] - 84:17</p> <p>summer [3] - 5:4, 70:23</p> <p>sunny [1] - 51:22</p> <p>superlatively [1] - 39:23</p>	<p>supermarket [1] - 42:19</p> <p>supersedes [1] - 63:12</p> <p>supplied [1] - 33:24</p> <p>supplying [1] - 62:21</p> <p>support [11] - 24:10, 34:11, 45:14, 47:24, 48:10, 48:11, 48:13, 49:7, 56:2, 89:9, 89:10</p> <p>supported [3] - 20:23, 47:6, 47:20</p> <p>supporting [1] - 47:9</p> <p>suppose [2] - 60:7, 61:15</p> <p>surprising [1] - 30:16</p> <p>survival [1] - 71:2</p> <p>survive [1] - 60:18</p> <p>surviving [1] - 71:6</p> <p>suspect [1] - 17:11</p> <p>sustainable [5] - 46:9, 46:13, 46:24, 47:4, 69:15</p> <p>sustaining [2] - 69:10, 70:21</p> <p>swath [1] - 39:3</p> <p>sweep [2] - 62:5, 62:7</p> <p>swell [1] - 63:5</p> <p>swim [1] - 67:22</p> <p>swindle [1] - 65:3</p> <p>synthesizing [1] - 47:6</p> <p>system [2] - 57:16, 57:19</p> <p>systems [4] - 38:12, 57:1, 57:8</p>	<p>61:1, 61:3, 64:12, 77:2</p> <p>teeth [2] - 61:19, 61:20</p> <p>telecommunication [1] - 11:23</p> <p>temporary [1] - 39:1</p> <p>ten [8] - 14:4, 24:4, 36:2, 36:14, 61:21, 62:7, 62:10, 75:19</p> <p>tens [1] - 41:13</p> <p>tensions [1] - 17:7</p> <p>term [2] - 15:12, 25:14</p> <p>terms [6] - 8:17, 11:11, 13:4, 15:23, 19:16, 28:13</p> <p>test [3] - 60:17, 60:22, 64:20</p> <p>Test [1] - 11:6</p> <p>tested [1] - 42:17</p> <p>text [1] - 32:2</p> <p>thanking [1] - 60:3</p> <p>THE [1] - 1:17</p> <p>THEATER [1] - 1:12</p> <p>themselves [1] - 63:6</p> <p>therefore [2] - 23:14, 25:11</p> <p>Therefore [1] - 27:8</p> <p>They've [2] - 75:11</p> <p>they've [1] - 6:15</p> <p>thin [1] - 89:24</p> <p>thinking [4] - 8:18, 12:24, 13:16, 60:3</p> <p>third [4] - 5:1, 28:4, 55:24, 67:6</p> <p>Third [1] - 56:20</p> <p>thoroughly [1] - 58:4</p> <p>thoughts [1] - 82:10</p> <p>thousands [3] - 31:2, 41:14, 71:5</p> <p>threat [1] - 21:1</p> <p>threatened [3] - 72:7, 83:2, 85:18</p> <p>Three [2] - 50:9, 66:21</p> <p>three [16] - 5:21, 6:4, 9:23, 10:16, 13:17, 20:16, 23:6, 23:12, 25:18, 30:10, 52:2, 55:4, 57:10, 72:10, 72:18, 75:12</p> <p>three-mile [1] - 55:4</p> <p>three-minute [1] - 20:16</p> <p>three-part [2] - 23:6, 23:12</p> <p>thresholds [1] - 27:9</p> <p>throughout [1] -</p>
T				
<p>table [2] - 7:4, 71:9</p> <p>tabloid [1] - 75:14</p> <p>talks [3] - 14:4, 70:4, 70:5</p> <p>tall [2] - 7:1, 62:4</p> <p>tank [1] - 75:16</p> <p>tap [1] - 24:7</p> <p>task [2] - 33:16, 36:20</p> <p>tattered [1] - 41:23</p> <p>tax [1] - 43:9</p> <p>taxes [1] - 74:19</p> <p>technologies [1] - 42:4</p> <p>technology [10] - 10:21, 13:2, 25:10, 31:18, 31:22, 55:6,</p>	<p>stock [2] - 46:15</p> <p>stop [2] - 67:17, 72:4</p> <p>stopping [1] - 78:14</p> <p>story [1] - 42:19</p> <p>strategies [2] - 45:7, 51:3</p> <p>strict [4] - 30:17, 63:14, 64:5</p> <p>stringent [1] - 22:24</p> <p>strobe [1] - 41:12</p> <p>strong [4] - 17:10, 42:9, 55:19, 56:17</p> <p>strongly [2] - 5:23, 23:3</p> <p>structure [3] - 38:18, 39:5, 39:14</p> <p>structures [4] - 38:4, 53:3, 53:7, 54:2</p> <p>struggled [1] - 17:9</p> <p>stubborn [1] - 76:1</p> <p>studied [3] - 55:1, 57:18, 86:17</p> <p>Studies [2] - 48:21, 57:2</p> <p>studies [4] - 85:5, 85:9, 85:11, 85:22</p> <p>study [1] - 53:9</p> <p>subcommittee [1] - 59:11</p> <p>subject [2] - 46:16, 56:2</p> <p>submit [6] - 32:3, 32:12, 34:8, 59:17, 64:17, 65:16</p> <p>submitted [1] - 34:3</p> <p>submitting [5] - 25:21, 26:18, 29:2, 43:24, 77:22</p> <p>subsidies [2] - 43:9, 76:4</p> <p>substantive [1] - 8:9</p> <p>substation [1] - 41:13</p> <p>success [1] - 42:18</p> <p>successful [1] - 25:16</p> <p>such-and-such [1] - 78:15</p> <p>sufficient [1] - 50:1</p> <p>suggest [3] - 59:10, 84:18, 91:6</p> <p>suggests [1] - 25:20</p> <p>suitable [4] - 10:19, 25:7, 25:13, 53:12</p> <p>summary [1] - 84:17</p> <p>summer [3] - 5:4, 70:23</p> <p>sunny [1] - 51:22</p> <p>superlatively [1] - 39:23</p>	<p>supermarket [1] - 42:19</p> <p>supersedes [1] - 63:12</p> <p>supplied [1] - 33:24</p> <p>supplying [1] - 62:21</p> <p>support [11] - 24:10, 34:11, 45:14, 47:24, 48:10, 48:11, 48:13, 49:7, 56:2, 89:9, 89:10</p> <p>supported [3] - 20:23, 47:6, 47:20</p> <p>supporting [1] - 47:9</p> <p>suppose [2] - 60:7, 61:15</p> <p>surprising [1] - 30:16</p> <p>survival [1] - 71:2</p> <p>survive [1] - 60:18</p> <p>surviving [1] - 71:6</p> <p>suspect [1] - 17:11</p> <p>sustainable [5] - 46:9, 46:13, 46:24, 47:4, 69:15</p> <p>sustaining [2] - 69:10, 70:21</p> <p>swath [1] - 39:3</p> <p>sweep [2] - 62:5, 62:7</p> <p>swell [1] - 63:5</p> <p>swim [1] - 67:22</p> <p>swindle [1] - 65:3</p> <p>synthesizing [1] - 47:6</p> <p>system [2] - 57:16, 57:19</p> <p>systems [4] - 38:12, 57:1, 57:8</p>	<p>61:1, 61:3, 64:12, 77:2</p> <p>teeth [2] - 61:19, 61:20</p> <p>telecommunication [1] - 11:23</p> <p>temporary [1] - 39:1</p> <p>ten [8] - 14:4, 24:4, 36:2, 36:14, 61:21, 62:7, 62:10, 75:19</p> <p>tens [1] - 41:13</p> <p>tensions [1] - 17:7</p> <p>term [2] - 15:12, 25:14</p> <p>terms [6] - 8:17, 11:11, 13:4, 15:23, 19:16, 28:13</p> <p>test [3] - 60:17, 60:22, 64:20</p> <p>Test [1] - 11:6</p> <p>tested [1] - 42:17</p> <p>text [1] - 32:2</p> <p>thanking [1] - 60:3</p> <p>THE [1] - 1:17</p> <p>THEATER [1] - 1:12</p> <p>themselves [1] - 63:6</p> <p>therefore [2] - 23:14, 25:11</p> <p>Therefore [1] - 27:8</p> <p>They've [2] - 75:11</p> <p>they've [1] - 6:15</p> <p>thin [1] - 89:24</p> <p>thinking [4] - 8:18, 12:24, 13:16, 60:3</p> <p>third [4] - 5:1, 28:4, 55:24, 67:6</p> <p>Third [1] - 56:20</p> <p>thoroughly [1] - 58:4</p> <p>thoughts [1] - 82:10</p> <p>thousands [3] - 31:2, 41:14, 71:5</p> <p>threat [1] - 21:1</p> <p>threatened [3] - 72:7, 83:2, 85:18</p> <p>Three [2] - 50:9, 66:21</p> <p>three [16] - 5:21, 6:4, 9:23, 10:16, 13:17, 20:16, 23:6, 23:12, 25:18, 30:10, 52:2, 55:4, 57:10, 72:10, 72:18, 75:12</p> <p>three-mile [1] - 55:4</p> <p>three-minute [1] - 20:16</p> <p>three-part [2] - 23:6, 23:12</p> <p>thresholds [1] - 27:9</p> <p>throughout [1] -</p>	

<p>14:22 throw [1] - 85:23 Tidal [1] - 42:17 tidal [5] - 11:20, 42:10, 43:1, 43:2, 75:23 tidals [1] - 60:22 tides [1] - 42:14 tie [1] - 51:21 tied [1] - 90:5 TILDEN [1] - 1:12 Tim [1] - 6:18 timing [1] - 55:12 today [2] - 40:6, 91:16 together [3] - 9:15, 49:1, 51:10 tomorrow [1] - 5:7 Tonight [2] - 21:18, 77:20 tonight [25] - 5:6, 6:6, 7:16, 17:5, 17:12, 18:1, 18:9, 32:14, 41:6, 42:1, 43:7, 48:19, 58:16, 65:13, 65:14, 67:1, 69:8, 69:20, 70:9, 70:10, 79:4, 87:12, 89:20, 90:4, 92:4 tonight's [2] - 4:12, 6:8 Tonight's [1] - 5:18 top [1] - 15:16 topic [2] - 38:7, 48:3 total [1] - 65:23 totally [2] - 30:16, 31:10 touching [1] - 69:19 tourism [4] - 28:11, 67:4, 76:21, 89:21 tower [1] - 91:10 towers [3] - 82:22, 84:9, 90:24 Town [1] - 93:11 towns [4] - 48:22, 56:11, 61:12, 65:1 track [2] - 6:2, 52:14 trade [4] - 30:18, 33:5, 67:1, 89:21 Trade [4] - 32:21, 32:22, 37:4, 37:5 trades [1] - 76:13 Trades [1] - 33:8 tradition [1] - 36:24 traffic [4] - 35:20, 53:12, 57:7, 57:10 training [1] - 60:5 tranquility [1] - 41:18 transcript [2] - 32:8,</p>	<p>93:9 transferring [1] - 37:21 transit [1] - 60:19 transited [1] - 38:5 transition [1] - 16:14 transmission [1] - 76:10 transport [1] - 52:1 travel [3] - 18:23, 67:24, 68:1 travelling [1] - 72:18 travels [1] - 67:24 traverse [1] - 57:13 treasure [1] - 86:13 treated [2] - 55:13, 88:12 treaty [2] - 30:18, 63:11 Treaty [6] - 29:21, 63:11, 68:15, 74:12, 74:14, 83:20 tremendous [1] - 49:3 tribal [3] - 30:5, 30:11, 68:3 Tribe [1] - 68:5 trigger [1] - 27:9 triggered [1] - 27:7 trip [2] - 31:18, 53:4 trips [1] - 52:1 trouble [1] - 66:10 troubled [1] - 64:8 troubling [2] - 31:9, 88:3 truck [1] - 52:3 true [4] - 67:9, 67:10, 83:24, 93:9 truly [4] - 21:12, 23:4, 72:6, 81:18 Truro [1] - 57:11 trust [1] - 22:9 Trust [6] - 14:24, 28:16, 28:18, 48:10, 48:13 trustee [1] - 22:12 Try [1] - 62:16 try [4] - 4:5, 17:16, 20:3, 43:8 trying [6] - 13:21, 17:13, 43:13, 43:17, 68:8, 88:5 tubing [1] - 34:20 turbine [8] - 42:10, 57:14, 61:3, 62:9, 64:13, 73:13, 91:7 turbines [47] - 14:4, 24:4, 29:24, 30:7, 30:9, 30:20, 30:24, 36:3, 36:11, 36:14,</p>	<p>38:11, 41:11, 42:3, 42:6, 42:12, 42:16, 42:17, 42:19, 42:22, 42:23, 52:16, 53:11, 55:23, 56:23, 57:2, 57:7, 57:17, 57:19, 61:21, 62:1, 62:2, 65:24, 66:20, 84:4, 84:5, 84:19, 84:21, 85:1, 85:8, 85:9, 85:10, 85:13, 85:14, 85:24, 86:1 Turbines [1] - 73:6 Turning [1] - 84:19 Twelve [1] - 84:2 twice [2] - 60:19, 76:5 two [23] - 6:3, 7:14, 7:15, 8:8, 9:5, 10:3, 10:4, 10:14, 21:19, 25:7, 29:18, 29:19, 30:1, 31:21, 49:22, 53:6, 55:3, 60:17, 62:7, 62:10, 76:11, 90:17 Two [1] - 30:2 type [7] - 11:22, 12:20, 36:9, 37:18, 38:19, 39:14, 47:11 types [4] - 13:19, 15:7, 38:14, 52:11 typewriting [1] - 93:12</p>	<p>undertake [1] - 79:15 undertaken [3] - 19:15, 21:11, 77:18 undertaking [1] - 55:9 underwater [2] - 42:11, 42:21 unduly [1] - 52:19 UNIDENTIFIED [3] - 31:24, 32:15, 82:2 unintended [1] - 39:12 unique [9] - 11:12, 22:2, 27:19, 40:13, 54:19, 79:3, 84:3, 86:9 Unique [2] - 8:7, 21:20 United [1] - 58:24 University [1] - 76:15 unless [2] - 23:24, 61:19 unquantified [1] - 22:19 unreliable [1] - 73:3 untested [1] - 22:18 untried [1] - 75:22 up [41] - 4:5, 5:15, 5:24, 6:15, 10:12, 11:17, 14:24, 16:13, 18:8, 20:10, 20:11, 26:4, 26:6, 30:21, 31:5, 31:13, 31:17, 35:15, 39:2, 51:21, 55:23, 59:3, 72:18, 72:24, 74:10, 75:10, 76:15, 78:24, 79:1, 82:16, 82:21, 84:9, 85:2, 85:6, 87:5, 87:7, 89:3, 91:7, 91:12, 91:19 upgrade [2] - 75:2, 78:13 urge [2] - 5:24, 23:14 urges [1] - 54:4 US [1] - 60:22 USA [2] - 42:5, 60:21 useful [2] - 78:15, 91:1 user [1] - 28:19 uses [14] - 7:19, 7:23, 9:9, 11:19, 11:21, 17:7, 17:20, 33:16, 34:1, 40:21, 45:19, 47:7, 52:9, 80:14 utility [1] - 30:9 utilize [4] - 31:15, 45:9, 46:1, 80:20 utilized [1] - 33:21</p>	<p>Utilizing [1] - 52:3</p> <hr/> <p style="text-align: center;">V</p> <hr/> <p>vague [3] - 22:18, 24:18, 45:21 valuable [2] - 73:16, 80:22 valuation [1] - 80:21 variable [1] - 42:13 variety [3] - 9:14, 49:6, 50:22 various [6] - 15:7, 28:7, 33:16, 45:13, 49:9, 62:16 vehicle [1] - 15:1 velocities [1] - 42:8 Veno [3] - 32:18, 35:6 VENO [1] - 35:6 venture [1] - 41:23 ventures [1] - 52:9 vessel [2] - 39:7, 52:14 vessels [9] - 38:6, 38:23, 52:11, 52:19, 52:22, 52:23, 53:1, 53:7, 53:16 vetted [1] - 52:18 viable [1] - 76:7 video [1] - 6:5 videoing [2] - 6:6, 32:7 Videos [1] - 6:8 view [2] - 21:23, 90:10 Vineyard [13] - 5:8, 6:19, 10:6, 11:3, 11:8, 34:16, 35:5, 35:20, 42:8, 51:14, 51:20, 56:3, 68:5 violating [1] - 63:13 violation [2] - 64:4, 74:11 virus [1] - 85:19 visibility [1] - 53:20 visit [1] - 61:2 visiting [1] - 34:24 visual [1] - 28:13 vital [1] - 37:11 vitality [1] - 38:6</p> <hr/> <p style="text-align: center;">W</p> <hr/> <p>walk [1] - 89:24 walked [1] - 41:17 WALSH [1] - 20:20 Walsh [3] - 2:7,</p>
--	--	--	--	---

<p>20:17, 20:21 Wampanoags [1] - 68:5 warming [2] - 21:2, 72:21 warning [1] - 57:19 warns [1] - 75:17 waste [1] - 71:17 Water [1] - 48:9 water [16] - 31:21, 36:6, 36:24, 39:3, 42:14, 51:4, 52:9, 55:16, 61:3, 64:13, 67:21, 68:4, 90:23, 91:7, 91:9, 91:16 waters [35] - 11:9, 21:14, 22:8, 23:2, 23:21, 24:1, 25:9, 27:7, 30:10, 31:1, 33:17, 33:21, 34:1, 38:5, 38:8, 41:9, 52:12, 52:17, 54:20, 54:21, 55:1, 55:3, 55:15, 55:24, 56:18, 57:4, 58:6, 60:16, 62:20, 67:18, 67:21, 68:12, 78:4, 85:21, 90:21 Waterskiing [1] - 34:19 waterway [1] - 43:8 waterways [1] - 52:5 WATTLEY [1] - 29:10 Wattley [3] - 2:9, 26:10, 29:10 wave [1] - 54:1 ways [3] - 7:22, 12:21, 51:3 weakened [1] - 55:20 weather [2] - 52:21, 84:20 web [2] - 5:16, 6:10 Weber [5] - 1:23, 2:4, 4:13, 6:21, 36:20 WEBER [1] - 6:24 website [2] - 16:21, 92:1 WEDNESDAY [1] - 1:10 Wednesday [2] - 5:8, 6:20 week [1] - 76:16 weigh [1] - 18:22 weigh-in [1] - 18:22 welcome [7] - 4:6, 4:24, 8:12, 17:5, 20:10, 32:16, 41:1 Welcome [1] - 4:10 welcomed [1] - 39:18</p>	<p>well-intentioned [1] - 24:11 well-known [1] - 82:23 Wellfleet [2] - 34:15, 48:19 Wendy [2] - 3:6, 88:18 west [2] - 52:15, 88:24 WEST [1] - 1:13 West [1] - 93:11 Wetlands [1] - 27:4 whole [3] - 36:20, 84:4, 92:2 wide [2] - 9:14, 37:12 widen [1] - 39:8 wild [1] - 88:24 wildness [1] - 41:21 William [4] - 2:19, 54:10, 58:8, 58:12 Wilson [1] - 63:10 Wind [36] - 25:7, 29:23, 30:19, 31:13, 32:21, 41:15, 42:8, 42:12, 43:10, 48:5, 55:3, 56:6, 56:10, 56:13, 57:6, 62:3, 64:3, 67:17, 68:7, 72:7, 72:9, 72:11, 72:15, 72:16, 72:23, 72:24, 73:4, 73:6, 73:10, 74:11, 74:21, 75:4, 76:6, 85:10, 85:13, 88:24 wind [47] - 13:1, 13:23, 14:3, 14:17, 23:23, 24:3, 24:10, 24:17, 25:5, 25:10, 25:12, 29:24, 30:20, 38:11, 41:11, 42:3, 42:6, 42:13, 44:17, 52:16, 53:11, 56:22, 56:23, 57:14, 57:18, 60:15, 61:21, 61:24, 64:12, 65:24, 67:11, 72:22, 73:3, 73:13, 74:22, 75:9, 75:13, 75:23, 80:11, 82:21, 83:14, 84:3, 84:5, 84:18, 84:21, 85:24 winter [1] - 53:21 wired [1] - 15:19 wish [2] - 5:22, 32:13 witnessed [1] - 61:9 wobbly [1] - 91:6 woman [1] - 63:4 women [1] - 33:6 wonder [1] - 63:21 wonderful [1] - 35:12</p>	<p>Wood's [3] - 48:6, 51:13, 52:3 Woodrow [1] - 63:10 word [2] - 82:15, 83:13 words [2] - 12:11, 91:20 works [3] - 4:13, 33:9, 91:18 workshop [1] - 31:4 world [6] - 13:14, 41:24, 73:1, 83:10, 84:1, 86:10 world's [1] - 64:13 world-class [1] - 13:14 worthy [1] - 77:16 Wow [1] - 6:24 writing [2] - 29:6, 68:17 written [7] - 6:1, 25:21, 32:12, 32:13, 43:24, 65:16, 88:14 ws [1] - 40:8</p>	<p>zones [5] - 38:21, 38:24, 39:16, 62:7, 84:18 zoning [1] - 55:9 Zweig [1] - 82:4 Zwiegl [1] - 82:4</p>
Y			
<p>Yacht [2] - 35:14, 37:1 yard [1] - 62:7 Yard [1] - 37:1 yards [1] - 62:6 Yarmouth [3] - 41:5, 56:11, 61:12 year [14] - 9:5, 30:21, 51:24, 57:12, 59:18, 66:15, 70:23, 74:11, 76:16, 83:8, 83:9 years [17] - 9:17, 24:1, 31:21, 40:5, 43:4, 50:16, 65:18, 65:20, 69:11, 69:12, 70:16, 70:22, 73:15, 73:20, 78:5, 83:9, 84:16 Yesterday [1] - 60:21 York [1] - 42:18 yourself [1] - 87:8</p>			
Z			
<p>zone [8] - 38:8, 38:17, 38:19, 39:7, 39:11, 57:20, 57:21, 62:8 Zone [9] - 1:22, 1:23, 4:13, 4:19, 4:22, 8:20, 21:10, 44:5, 46:19</p>			