

1

MASSACHUSETTS OCEAN PLANNING

LISTENING SESSION

MONDAY, OCTOBER 20, 2008

CAPE COD COMMUNITY COLLEGE
BARNSTABLE, MA

7:06 p.m. - 8:00 p.m.

3

1 OPENING REMARKS BY MR. BABB-BROTT:

2 Good evening, folks and thank you

3 for coming out out tonight on behalf of my boss,

4 the Secretary of Energy and Environmental

5 Affairs, Ian Bowles. My name is Deerin

6 Babb-Brott and I'm Assistant Secretary for

7 Oceans and Coastal Zone Management. The

8 secretary asked me to pass along his thanks for

9 coming this evening.

10 Joining me this evening are

11 several members of the Ocean Advisory Commission

12 which I will describe in a moment. With us also

13 this evening is Representative Sarah Peake from

14 Provincetown, Representative Demetrius Atselis

15 from down here, Senator Rob O'Leary, John

16 Popallardo from the Cape Cod Commercial

17 Fishermans Association which is the commercial

18 fishing representative on the Ocean Advisory

19 Commission, and Jack Clark from the Mass

20 Audubon, the environmental representative from

21 the Ocean Advisory Commission.

22 Before we get going this evening

23 on the public listening session I'd like to

2

1	I N D E X	
2		PAGE
3	Opening Remarks	3
4		
5	Presentation of Plan	9
6		
7	Comments from the Floor	21
8		
9	Adjournment	49
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		

4

1 introduce Representative Atselis with some words

2 of welcome.

3 COMMENTS BY MR. ASTELIS:

4 I will be ever so brief. I want

5 to thank you all for being here tonight. We

6 have a very important charge but we're going to

7 listen to you as we formulate the regulations

8 for the bill that was put forth by our friends

9 and colleagues under the stewardship of Rob

10 O'Leary. Great efforts are sorely needed and I

11 have a delegation on the Cape. We're very proud

12 to support the initiative.

13 Without further ado I want to the

14 bring up Rob O'Leary. And I have to cut out

15 early. My son is over there with the Patriots

16 jersey on. It's his first Patriots game and we

17 happened to get tickets for tonight's game. So

18 thank you.

19 COMMENTS BY MR. O'LEARY:

20 Thank you very much, Demetrius.

21 And this is going to be a bit unfortunate. Like

22 Demetrius I'm going to be heading out the door

23 as well. I'm teaching a class on the other side

5

1 of the campus. They're here in the room right
 2 now. They're sitting out there somewhere I
 3 hope. So I have to head back to the class and I
 4 apologize for that.

5 But I just -- first of all I want
 6 to thank my colleagues for being here and make
 7 it clear to people that nothing happens on
 8 Beacon Hill without the support of everybody.
 9 It's a group effort and this legislation was
 10 really the product of a lot of work by all my
 11 colleagues on both the House and Senate side and
 12 frankly some of the environmental groups and
 13 fishing groups. It's a pretty simple bill in a
 14 lot of ways and it really is rooted in a very
 15 simple principal which is that there are
 16 pressures that are playing out across our ocean
 17 landscape and ocean environment. They are
 18 changing over time rather quickly and there are
 19 competing uses and competing interests. And
 20 this is public space. And there is a public
 21 trust doctrine and there's a public agenda that
 22 needs to be addressed.

23 And really all this legislation

6

1 seeks to do is simply get that public discussion
 2 going, get that public agenda sort of out front
 3 and try to resolve frankly some of those
 4 differences, some of those issues and make sure
 5 that the public interests are being properly
 6 looked after. I'm not suggesting they wouldn't
 7 be, but we need to do that planning process
 8 early on and try to resolve some of these issues
 9 and give some prospective vision to what we
 10 think should happen.

11 And this effort, this planning
 12 effort is the first step in my opinion. And as
 13 you're going to hear tonight, it's really going
 14 to be a framework to begin to deal with these.
 15 And then over time we're going to fill in more
 16 and more information, more and more experience
 17 and build a more elaborate framework and
 18 ultimately plan for our state waters. And
 19 hopefully it will be one that will deal with all
 20 of -- as I said, all of the competing issues
 21 that are out there.

22 And so I want to thank you all for
 23 being here tonight and I want to apologize for

7

1 the fact that I am going to be running out the
 2 door with fifteen or so people. And I want to
 3 make sure that I introduce Sarah Peake, our
 4 state representative who was very helpful on the
 5 lower Cape and in the legislature on these
 6 issues. If there's anybody who has sort of an
 7 ocean interest at heart it's Sarah. It comes
 8 with the district, Sarah, I think. And she's
 9 been a great colleague on this. So thank you
 10 very much and I will leave now.

11 COMMENTS BY MS. PEAKE:

12 Thank you. I will be very brief
 13 because we're here tonight to hear what you have
 14 to say. But I want to congratulate Senator
 15 O'Leary for bringing forth what is really a
 16 first in the nation ocean management bill. And
 17 he's right. This is near and dear to my heart
 18 and -- boy, I know how to clear a room --

19 It's near and dear to my heart
 20 because as I said on the floor and in the well
 21 of the house chamber in the State House, I
 22 travel to Boston in a variety of ways.
 23 Sometimes I'm fortunate enough to be able to

8

1 take the ferry. Sometimes I fly over on Cape
 2 Air and other times I drive. But whether I'm
 3 flying through the waters of Cape Cod Bay on the
 4 fast ferry or whether I'm flying over the state
 5 waters on Cape Cod Bay as I fly from
 6 Provincetown to Boston, I look down and what may
 7 look like on the surface a very tranquil sea is
 8 really a playing field for a variety of
 9 competing interests, interests that I believe
 10 can all coexist together. But they can't
 11 coexist together in an ecologically,
 12 environmentally sound way or even in a sound way
 13 from a business perspective unless we have a
 14 plan. Because we've seen the disaster that
 15 happens when you make it up as you go along as
 16 sort of what's happening with the Cape Wind
 17 project.

18 So I am an enthusiastic supporter
 19 of this. I'm eager to hear what you have to say
 20 because your feedback will be taken from a grass
 21 roots level up to help form this ocean
 22 management plan. And I believe that puts us
 23 ahead of the curve which makes for good policy

<p style="text-align: center;">9</p> <p>1 which then makes for good government. So thank 2 you for taking the time to be here tonight. I'm 3 eager to hear your remarks. 4 PRESENTATION BY MR. BABB-BROTT: 5 Thank you, Representative. So 6 this evening the agenda is fairly simple. I'm 7 going to spend ten minutes or so just doing a 8 presentation of the Oceans Act and then on the 9 planning process. And then we have done a 10 sign-in list and folks have indicated that 11 they'd like to come up and make some comments 12 we'd love to hear and we'll talk a little bit 13 more about that. When we're done with that if 14 folks haven't signed up and they're moved to 15 speak we'd certainly love to have folks that 16 haven't signed up come up as well. 17 This evening is the twelfth in a 18 series of eighteen public meetings that the 19 executive office is holding statewide as a first 20 step in developing the Ocean Plan. Our goal is 21 to develop the Ocean Plan with broad-based 22 public participation and develop what I will be 23 describing in a few moments. Your thoughts and</p>	<p style="text-align: center;">11</p> <p>1 page which is going to be up any day now and 2 that will let folks who aren't able to go to the 3 meetings themselves just dial on the computer and 4 be able to see any that have occurred so far. 5 As I go through the handout you 6 may have picked up out there, the very last line 7 of the handout there's -- one of the slides 8 wraps up with suggested thoughts that you might 9 share with us this evening. We're happy to hear 10 anything you have to say but we're interested in 11 particular in things like how do you use the 12 ocean or how do you experience the ocean. How 13 do you feel that your interests should be 14 reflected in the Ocean Plan that has to balance 15 a number of things. And do you have thoughts 16 about the planning process or how we can be 17 effective in terms of reaching out and working 18 with folks. Again, anything you have to offer 19 is going to be great. So with that, I'll start 20 on the presentation. 21 We start the evening with the 22 question about what is the Oceans Plan. 23 Basically, the Oceans Plan is a plan to guide</p>
<p style="text-align: center;">10</p> <p>1 comments are going to help the Ocean Advisory 2 Counsel, members I've introduced this evening 3 and the DEA, and define how the Ocean Plan 4 should achieve the objectives set forth in the 5 Oceans Act. 6 There's a sign-in sheet at the 7 door. If folks haven't signed in if you could 8 do so, give us e-mail contact if you'd like us 9 to be able to get back in touch with you, send 10 you notice of meetings, availability of 11 products, any available information we'd like to 12 be able to reach out if folks want to give us 13 that info. 14 The handouts include an overview 15 of the Oceans Act and the public participation 16 process. There's a map of the planning area. 17 And if folks would like to do so there's a form 18 that you can use to submit written comments this 19 evening as well. 20 You'll notice the video equipment 21 and the commotion getting started here. We're 22 videotaping all of the public meetings that we 23 have out there and they will be going on a web</p>	<p style="text-align: center;">12</p> <p>1 the use, protection and development of our ocean 2 waters that addresses a number of things. We 3 have different kinds of uses and different 4 resources out there. Sometimes the resource 5 uses overlap with resources or resources 6 conflict with other uses. We may be going into 7 a place where there's dredging proposed or where 8 there's alternative energy sources proposed. 9 Different things happen in different places we 10 need to reconcile. 11 The plan overall is designed to 12 balance use, protection and development in our 13 state ocean waters. The ocean plan is going to 14 be implemented through state permits and other 15 approvals which have to be consistent with the 16 plan. So the plan is not a new regulatory 17 overlay but any permits issued for activities 18 out in the water have to be found consistent 19 with the plan by the state agencies before they 20 will issue permits. 21 The jurisdiction of the ocean 22 planning area begins about 3/10ths of a mile 23 seaward and extends out to the three mile limit</p>

13

1 of state waters. So the intent of the plan is
 2 to be a blue water plan, not to address docks
 3 and piers, not to address harbor channel
 4 dredging that's on the inside. It's more to
 5 address those kinds of deeper blue water issues
 6 that are out there.

7 The Oceans Plan is going to be
 8 based on environmental, economic and social
 9 information, lots of maps, lots of data that we
 10 will use to rationally organize the use of ocean
 11 space and the interaction between uses to
 12 balance demands for development with the need to
 13 protect the environment and to achieve social
 14 and economic objectives in an open and planned
 15 way. So the intent of the legislation is to put
 16 the bill together, as the senator said, to get
 17 away from a project by project permit by permit
 18 perspective of the project. Look at it all the
 19 way across the board then make intelligent
 20 planning decisions in a larger planning context.

21 We need the Oceans Plan because
 22 the Oceans Act of 2008 recognizes that the ocean
 23 is a public resource. That's something that's

14

1 embedded in the act and something we've talked
 2 about at lot and something that we hear in all
 3 the public information meetings which our folks
 4 clearly say the ocean belongs to all of us and
 5 we would like our perspective recognized as we
 6 consider how uses are going to be organized. So
 7 we need to protect and enhance. We need to use
 8 the ocean. The act talks specifically about
 9 enhancing and facilitating renewable energy out
 10 there. But it also talks about identifying and
 11 protecting special uses that inhabit those
 12 areas. So again the Oceans Plan is about
 13 defining balance.

14 The Legislature passed and
 15 Governor Patrick signed the Oceans Act in 2008.
 16 The act directs the secretary with the
 17 assistance of the Ocean Advisory Commission and
 18 a science advisory counsel to develop a
 19 comprehensive management plan and in short the
 20 act directs that the Ocean Plan set forth the
 21 Commonwealth's goals, siting priorities for
 22 proper stewardship of its ocean waters held in
 23 trust for the benefit of the public.

15

1 The act also directs that the
 2 Oceans Plan foster sustainable uses that
 3 capitalize on economic opportunity without
 4 significant detriment to resources, to identify
 5 appropriate locations and performance standards
 6 for activities, uses and facilities allowed
 7 under the ocean sanctuaries act. The primary
 8 purpose of the plan is to address perceived
 9 shortfalls in the protection under the Ocean
 10 Sanctuaries Act. For example, facilities
 11 allowed under the Ocean Sanctuaries Act include
 12 gas pipelines, renewable energy facilities, sand
 13 mining areas for beach nourishment.

14 Renewable energy facilities are
 15 now permitted under the Ocean Sanctuaries Act
 16 provided they are consistent with the Oceans
 17 Plan and that they are of appropriate scale.
 18 That's something that the act does not define
 19 and that we don't have preconceived notions of.
 20 It's something that we're particularly
 21 interested in hearing from folks out in the
 22 world about what are your notions of appropriate
 23 scale, what kind of factors do folks think that

16

1 we should consider as we think about definitions
 2 of what appropriate scale might be.

3 Importantly, the Oceans Act
 4 directs that personal and recreational fishing
 5 shall be allowable uses, subject to the
 6 exclusive jurisdiction of the Division of Marine
 7 Fisheries. It says that the DMF will have sole
 8 responsibility for developing and implementing
 9 any fisheries management plans or regulations.

10 So this is not a fisheries
 11 management bill. These are not fishing
 12 regulations. We are talking extensively and
 13 working with fishermen because as we consider
 14 the full range of potential uses and potential
 15 areas that would be worthy of protection out
 16 there, we need to know where fishermen fish, for
 17 what, when and how so that we can consider all
 18 of that as we look at the different pieces of
 19 the world out there.

20 The schedule and the product of
 21 the Oceans Plan, by June 30 of next summer we'll
 22 have a draft plan for public hearings. And by
 23 December 31 of next year we'll formerly

17

1 promulgate the Oceans Plan that will have two
 2 components. We will have an actual plan. The
 3 plan's framework that the Senator described that
 4 will identify areas suitable for protection,
 5 suitable for development, management measures
 6 for both, but also recognizing that this is a
 7 discipline that far exceeds right now what we
 8 know about the ocean and that brings into play
 9 many questions about protection and use of the
 10 ocean that we can't begin to answer.

11 The plan that we develop the first
 12 go around is also going to have a formal
 13 component which lays the groundwork for
 14 subsequent planning, subsequent study,
 15 subsequent data acquisition so that as our
 16 knowledge increases, go back and define the
 17 management standards of the plan and allow it to
 18 develop over time. The act recognizes and
 19 requires that and it requires that the
 20 legislature reviews a renewed plan at least
 21 every five years.

22 So we're developing a plan based
 23 on four basic steps. The first step is now

18

1 through the end of January and it's essentially
 2 the raw materials or the gathering of
 3 information stage. We're receiving and
 4 reviewing public comments. We'll be working
 5 with the Oceans Advisory Commission to develop
 6 planning principals which will help guide how
 7 the plan is built. We're collecting and
 8 analyzing existing environmental, economic and
 9 social data. We use that to develop both the
 10 short and long term science based on the plan
 11 and understand what we know now and what we need
 12 to understand in the future to increase our
 13 knowledge and make better decisions. We're
 14 working with the agencies, work groups,
 15 interested people, experts in the field, private
 16 sector, state agencies, federal agencies,
 17 engineers, representatives of fishing groups,
 18 different ocean users. We're working with the
 19 public obviously.

20 Lastly, as part of the first phase
 21 we're reviewing and analyzing the oceans
 22 planning models from around the world. This has
 23 been done maybe in eight, ten, twelve other

19

1 places around the world. Not a whole lot of
 2 places. Not many places in the United States.

3 But as we begin to start the process we're
 4 looking at what other folks have done and seeing
 5 what may make sense out here. We'll sit down
 6 and work with the Ocean Advisory Commission.
 7 We'll review what those might be and see what we
 8 think has the most utility for application here
 9 in Massachusetts.

10 Once we have the raw materials
 11 starting in February through April we'll start
 12 to overlay all those different sets of data and
 13 see where the potential conflicts are. Where
 14 are our special resources. Where are our
 15 concentration of uses. Where do things happen
 16 in a way that bump into other things that need
 17 mediation. So to begin that process.

18 Importantly as part of that we're
 19 going to be coming back out into the world and
 20 conducting what we're calling here hands-on
 21 evaluations with stakeholders. So this is a
 22 public listening session. Like I said, our
 23 primary purpose this evening is to hear what

20

1 folks have to say and then we're going to come
 2 back after we have the raw materials put
 3 together and start working with folks and saying
 4 all right, here's the maps on the wall. Here's
 5 what the information that we've gathered so far
 6 really illustrates. Here's where the conflicts
 7 are. Here's where the things that can work well
 8 are. Here's what would happen if we kind of
 9 thought about things in different ways. If we
 10 increase the emphasis on alternative energies
 11 and we have fishing interests, here's what the
 12 trade off looks like.

13 Or it can go the other way. We
 14 want to protect the habitat in this area but
 15 there's also an interest in alternative energies
 16 here too and here's what that trade off might
 17 look like. We'll do a series of working
 18 meetings out in the world that will help us
 19 build the draft plans to go forward.

20 The third step is May and June.

21 That's really taking those public working
 22 meetings and defining them down into the draft
 23 plan that we'll then put forward in step four, a

1 formal review by the legislature and for the
2 formal public hearings over the course of
3 December and early winter 09.

4 So that's a fast trip through the
5 planning process. As I said, there's additional
6 information in terms of some links on EEA web
7 page and other resources. Please take the time
8 to look at them if you'd like.

9 Lastly, comments and participation
10 as I mentioned, what's important to you based on
11 how you use or experience the ocean, how should
12 we feed that into the plan, what do you think
13 about the ocean planning process. Those are the
14 easy questions. We're happy to hear anything
15 that you'd like to offer. So with that I'm
16 going to sit down and start working off the list
17 and hear what you have to say.

18 I apologize for not reading
19 handwriting. I think it's a yes or no, maybe
20 and it's M. Ferro.

21 COMMENTS FROM THE FLOOR:

22 How are you? I'm from Dennis,
23 Mass. Can you hear me? Obviously. My

1 curiosity was I was excited about the act
2 because I figured you were going to catch the
3 loopholes that no one gets. But I realize you
4 guys are just overseeing organizations and
5 making sure they all have fair play in the
6 waters.

7 I myself don't fish but I am
8 concerned about the fishing stocks that are
9 right off our beaches like on the Bass River,
10 Nantucket Sound. I want to know if you're -- I
11 didn't see anything on the list of the types of
12 groups you're going to be working with, if
13 you're going to be working with the Gulf of
14 Maine Watershed Association, because whatever is
15 coming off the water obviously is going to be a
16 problem for managing the oceans as far as
17 thinking you're getting ahead and not really
18 understanding that process. But I am sure
19 you'll figure out what's working there.

20 But the other aspect is where is
21 the funding coming from for the act directly?
22 Is it from just the general fund? As I
23 understand it the state just got appropriated

1 thirteen million dollars to help the ground
2 fishing fleets and none of it's coming from that
3 as far as I know, is that right?

4 MR. BABB-BROTT: That's correct.

5 THE FLOOR: Just making sure. If
6 it's possible to make a list of organizations
7 that you're dealing with outside of the state
8 itself, obviously you have to do work with the
9 Conservation Commissions of the towns and
10 resources and stuff, but as I said, the GMO,
11 Watershed for the Gulf of Maine as well as the
12 state next door. We have Rhode Island to deal
13 with and obviously we're watching them because
14 they just okayed putting a windmill off their
15 waters. And New Hampshire and Maine and all
16 Cape Cod bay is a huge area to manage. So
17 that's basically all I want to say. Thank you
18 very much.

19 MR. BABB-BROTT: Thank you. An
20 old friend from the DEP waterways, John Simpson.

21 Good evening. Thank you all for
22 coming. First of all I want to say I truly
23 support the concept of the management plan. I

1 have been involved with harbor planning in the
2 past as well as the resource management
3 planning. When you take the different public
4 interests that occur in our waterways and you
5 try to balance them.

6 There are a lot of folks out there
7 with a lot of good ideas and coming out in the
8 state you're going be exposed to quite a few of
9 them. My main issue and the thing I want to
10 focus on is the governance and the management
11 plan. Through efficiency and cost savings and
12 an overall implementation plan to implement the
13 plan, I recommend that we consolidate several of
14 the existing programs under one director or one
15 commission.

16 Right now for a number of years in
17 the state's waterways program as well as
18 management support in New Bedford, I'm serving
19 now in the town of Dennis waterways commission
20 although I'm speaking on my behalf, not the
21 town.

22 When you have several different
23 heads of departments of different organizations

25

1 within the state that are issuing different
 2 permits and decisions, you tend to go in
 3 sometimes different directions. If you have one
 4 person that has oversight of all of those
 5 programs and operational people report directly
 6 to them you will have better efficiency.
 7 What I recommend doing is a
 8 combining of the state's waterways program and
 9 DCR with waterways program and DEP, the oceans
 10 sanctuaries program and CCN as well as the dam
 11 program. Although the dams are not part of this
 12 they are a resource area that ends up into the
 13 oceans and affect the overall interests of the
 14 Commonwealth.
 15 So you're just putting all those
 16 programs under one director bringing them back
 17 together. And also consider some changes to the
 18 waterways protection program. In the state of
 19 Virginia there is a Virginia Resource
 20 Commission. Massachusetts could have something
 21 similar. Massachusetts' Commission will be six
 22 programs that come together under that agency.
 23 In Virginia I know they were holding hearings on

26

1 appeals once a month. The commissions would
 2 meet. They'd hear the appeal. You'd get a
 3 decision within that month. So it cuts down on
 4 a lot of administrative and legal time that goes
 5 into hearing various appeals and motions. You
 6 get a decision and then move on from there.
 7 The University of Massachusetts
 8 Amherst, Boston campuses, Dartmouth and
 9 elsewhere could serve to help support the local
 10 conservation commissions by performing
 11 evaluations of resource areas. Not telling
 12 anyone to vote yes or no on a project, but
 13 providing information. So their program works.
 14 So it's another way of tying in the education
 15 component, the science component and with local
 16 support especially at a time when our economy is
 17 looking for any efficiencies that we can get.
 18 As you intended to, we need to
 19 ensure there's good balance between the
 20 commercial interests, the recreational fishing,
 21 for dredging and resource protection. In the
 22 near short waters we have a pretty good
 23 foundation right now that designates important

27

1 areas for our master plans, the resource
 2 management plan. Those are the foundations that
 3 you should now build on for the Oceans
 4 Management Act. And I think there's some good
 5 lessons from working in those different
 6 communities on the North Shore and the South
 7 Shore as well as Provincetown.
 8 So we can draw on that for dealing
 9 with the issues that we have out in the open
 10 water. Right now there are existing projects.
 11 We all recognize that there are channels that
 12 need to be dredged. One of my projects is
 13 dredging in New Bedford. I had contaminated
 14 materials that we kept in the harbor. We have
 15 clean sand that needed to be disposed of. We
 16 took it offshore. Some of it we used to cap
 17 some of the jetty areas. But it's a resource
 18 material that those clean sands could be used
 19 for beach and oceans.
 20 So I support the positive work
 21 you're doing. Keep it up. And Deerin, you can
 22 get ahold of me if you need me.
 23 MR. BABB-BROTT: Thank you, John.

28

1 Sue Nickerson.
 2 Good evening, Deerin and members
 3 of the commission. My name is Sue Nickerson.
 4 I'm the Executive Director of the Alliance to
 5 Protect Nantucket Sound. I'm here tonight
 6 representing Nantucket Sound Keeper which is a
 7 program of the alliance that is focussed on long
 8 term protection of Nantucket Sound. We have
 9 quite a number of suggestions that we'd like to
 10 share over the next couple of weeks with the
 11 commission as you work towards your draft plan.
 12 I'd like to mention five of those this evening
 13 that I think are kind of at the top of our list
 14 in terms of planning principles.
 15 The first is kind of self-evident,
 16 but we feel that defending the public interests
 17 at all costs is really imperative and that the
 18 plan should not allow publicly owned resources
 19 to be extensively privatized or industrialized,
 20 that the public trust interests have to come
 21 first.
 22 Secondly, we suggest that we
 23 safeguard against something I would call the

29

1 Cape Wind Syndrome. And even though the process
 2 is not about Cape Wind there are a lot of
 3 lessons to be learned from the course of the
 4 last seven years there.
 5 What we think is important is that
 6 this process avoid a developer driven approach
 7 where a developer lays claim to a specific area
 8 of publicly owned ocean and then puts the public
 9 in the position of defending what is actually
 10 rightfully theirs to begin with.
 11 Reverse the process. We're
 12 dealing and finding that the processes that
 13 start with consensus based management in the
 14 community are the ones that are most successful.
 15 And I think that this exercise can benefit from
 16 a consensus type approach that have been used in
 17 these other states around the country when it
 18 comes to siting offshore wind energy projects
 19 particularly. Beyond that, first and foremost
 20 protect the natural resources and beyond that
 21 site appropriate projects in appropriate places.
 22 Item three, we would support your
 23 creating a highest and best use type of standard

30

1 that is based on natural resource management
 2 objectives and ensure that the plan maintains or
 3 improves existing environmental conditions.
 4 Item four, we strongly support the
 5 creation of specific plans for each area of the
 6 ocean -- each Massachusetts ocean sanctuary, in
 7 order to maximize the protection of the unique
 8 resources of each geographic area.
 9 And a question that I had on your
 10 map at the door tonight, my understanding is the
 11 legislation created a Nantucket Sound ocean
 12 sanctuary and a Buzzards Bay ocean sanctuary
 13 that basically split apart the Cape and Islands
 14 ocean sanctuary. It's in the yellow down here.
 15 I believe that's the case.
 16 MR. BABB-BROTT: I have to
 17 research that and I'll get back to you tomorrow.
 18 THE FLOOR: Okay. That's
 19 something we worked hard for and we were really
 20 glad to see Senator O'Leary got us in there.
 21 The map didn't actually reflect that. So
 22 anyway, if you can straighten that out that
 23 would be good.

31

1 The final point is on your
 2 question, on your primary concern about
 3 appropriate scale, the definition of appropriate
 4 scale projects for renewable energy efforts. We
 5 again have a number of suggestions but we'd like
 6 to bring up two.
 7 First and foremost we really do
 8 feel that local acceptance needs to drive that
 9 process, that aspect of the planning exercise
 10 and that we really suggest you avoid a one size
 11 fits all approach to appropriate scale, that
 12 each area, each geographic region, each ocean
 13 sanctuary will have its own definition of
 14 appropriate scale for that sanctuary.
 15 To that point I think we're very
 16 fortunate here on the Cape and Islands to have
 17 the Cape Cod Commission and to have the Martha's
 18 Vineyard Commission which have existing regional
 19 policy plans that largely reflect the goals and
 20 objectives of this region in terms of
 21 environmental, economic and social objectives
 22 and values. You can really look to those
 23 regional policy plans to guide the development

32

1 of your plan generally, but particularly the
 2 appropriate scale definition by looking to those
 3 two commissions.
 4 I think that's probably it for the
 5 time being and I look forward to providing more
 6 input to you over the next several weeks. Thank
 7 you.
 8 MR. BABB-BROTT: Thank you very
 9 much. James Lydel.
 10 Good evening. My name is Jim
 11 Lydel. I live in Yarmouthport with my wife and
 12 I'm on Board of Directors of Clean Power Now
 13 which is over a 10,000 member non-profit
 14 organization that has been advocating very
 15 definitely for renewable energy.
 16 I think that the perspective of
 17 renewable energy and our current problems that
 18 have been brought up in the presidential race
 19 and other things, other issues, is something
 20 that must receive -- and I notice it's
 21 specifically mentioned in the act or
 22 interpretation or your summary of the act as
 23 being an important consideration. We just need

1 to move ahead to protect the health of people on
2 the Cape Cod area, on the islands and prevent
3 the massive contamination that takes place from
4 burning fossil fuels. And of course with the
5 nuclear plant not far away also the possibility
6 of not being able to get off Cape Cod if there
7 were a significant nuclear energy disaster.

8 So what does Massachusetts and the
9 ocean bring to that. Why is that particularly
10 important to renewable energy. Well, it seems
11 pretty definite now that the primary most
12 efficient way to get clean power at a low cost
13 is by generating it through the use of wind
14 turbines. And it's also true that for any given
15 wind turbine, whatever it's configuration,
16 small, large, big blades, small blades, smaller
17 blades, good size blades but smaller, that for
18 any given unit the output, the electrical output
19 of that unit is going to be proportional to the
20 cube of the velocity. So if the velocity is
21 doubled, if it's twenty miles an hour to on
22 Nantucket Sound and Horseshoe Shoals it will be
23 twice cubed, two times two times two would be

1 eight times as much electrical output as with
2 the same unit where it's on land in a typical
3 place on Cape Cod -- there's a few that would be
4 a little higher -- but let's take the example on
5 Horseshoe Shoals. It would be eight times as
6 much power. So obviously that's very important
7 if our objective is to solve some serious
8 problems that this country has. I'm just using
9 Horseshoe Shoals as an example as typical.

10 I'm saying Massachusetts has some
11 of the best places off shore in the United
12 States. In fact, the whole east coast is
13 phenomenal. The west coast is not as good
14 because the land drops off and you can only site
15 wind turbines within a reasonable depth. So it
16 drops off fast and you lose the ability to do it
17 without extremely extremely expensive
18 foundations.

19 So I am sure you're all familiar
20 with the benefits of renewable energy, the
21 health benefits, the benefits to the
22 environment, the benefits to birds, not killing
23 thousands and thousands of fish and sea life

1 with oil spills. And I think that -- I hope
2 that during the process of working on this that
3 renewable energy is a very serious starting
4 point for your consideration. Thank you very
5 much.

6 MR. BABB-BROTT: Thank you. Kat
7 Helmes.

8 Good evening. I don't have
9 anything prepared tonight but I really feel
10 strongly to be able to talk. And I live on
11 Lewis Bay which is directly affected by Cape
12 Wind. And I -- five generations have lived in
13 this home. I grew up on that water, my kids. I
14 take my grandson out to ocean. I take my
15 grandson out to the beach on low tide. We pick
16 up the animals. We pick up hermit crabs and
17 conch shells and moon snails and all of these
18 wonderful things. My cat walks down to the
19 beach with us. She plays in the grass. She
20 lays there. The rabbits come in and out of the
21 beach grass and it's beautiful. What I love is
22 to be able to look out at that ocean and I know
23 generations that have passed on in my family

1 have seen, I'm seeing, and my children saw --
2 they're grown up and my grandchildren are
3 seeing.

4 The process that is taking place
5 with Cape Wind I feel totally violated. I'm
6 just bowled over that the community was never --
7 our opinion -- it was just we weren't important,
8 just bowled us over. This is what we're going
9 to do.

10 I went to the Blue H, that's the
11 other wind farm that they're talking about in
12 Rhode Island now. I went to their presentation.
13 I didn't feel the same way. So it's not about
14 building things in the ocean that I have a
15 problem with. The way that they spoke, they
16 talked about how they heard what we were saying
17 and they took that into their plan and they
18 developed a different way to put the turbines
19 out there. They developed ways -- they took
20 into consideration the communities around there,
21 where would be appropriate. They did it in a
22 way that they could be moved if in the future it
23 needed to be done, you know, they needed that

1 area for something or something was found. The
2 way they were built they are able to be moved.

3 These are little things. They
4 seem like little things but that makes a
5 tremendous difference in how our oceans
6 developed and we need to be able to take into
7 consideration the people in the community. They
8 need to be part of the process and not just who
9 cares.

10 I don't know what else to say.
11 But that's what I'm here for. I just want you
12 to make sure that the public is really focussed
13 on with this plan. Thank you.

14 MR. BABB-BROTT: You're welcome.
15 Thank you. Those are the names of the folks
16 that I have listed here who said they wanted to
17 speak. Have I missed anyone or is there anyone
18 who hasn't signed up who would like to come up
19 and speak? If there aren't I'd like to thank
20 folks for coming -- oh please.

21 Hi. My name is Martha Powers.
22 I'm a citizen. I live in West Yarmouth. I
23 didn't really have time to prepare remarks

1 tonight. But I have followed the Cape Wind
2 project for some years, and I have two major
3 concerns that have come out of that work. And
4 one is the environment and the other is the
5 experience of the ocean.

6 I know that millions of birds
7 migrate through here. This is the most
8 important flyway on the east coast. And the
9 studies that were done were all done -- pretty
10 much all done during the day. And the birds --
11 ninety-eight percent of the birds migrate at
12 night. So I know the studies were inadequate
13 and I don't think that was focussed on. And
14 it's so important.

15 People come from all over the
16 world to see these birds and experience these
17 birds and they come from many other countries.
18 They are not from here. Many are endangered and
19 threatened species. I think that needs to be
20 looked at carefully and that night studies need
21 to be done over a three year period before any
22 kind of wind turbines could be sited there or
23 any industrialization that would be harmful to

1 the birds.

2 I thought it was a rule of thumb
3 when you're siting winds turbines that you never
4 ever put them in the middle of the big flyways
5 of this country. There aren't that many big
6 flyways like this. So I think that would be a
7 rule of thumb in any regulatory things that you
8 come up with that would be included. No wind
9 turbines can go where the birds go.

10 And I can probably read a sentence
11 from this book I have come across recently
12 because I thought this was stunning. The book
13 was called Living on the Wind Across the
14 Hemisphere with Migratory Birds. It says on one
15 exceptional night on Cape Cod some years ago
16 radar showed an estimated twelve million song
17 birds going south. That's one night. Twelve
18 million song birds. Many people call the
19 turbines the Cuisinarts of the sky because they
20 do kill birds and that's a well known fact.

21 Bats have been studied and of
22 course the bats migrate at night. I'm also
23 concerned with the horseshoe crabs. Anything

1 that's going to be in the ocean floor is going
2 to be killed. Horseshoe crabs. There is lots
3 of anecdotal evidence there are many on
4 Horseshoe Shoals. Other people say no. I did
5 go to a horseshoe crab conference and none of
6 the experts there knew of any surveys ever being
7 done in Nantucket Shoals or that area. So I
8 think a lot of studies haven't been done and you
9 really need to protect that area.

10 Then I just -- because I didn't
11 have a chance to really prepare any remarks.
12 I'd like to read a couple of paragraphs that I
13 wrote in 2007 that was in the Cape Cod Times
14 that describes my experience of the ocean which
15 is almost impossible to describe. But it gives
16 an indication. It says, much magic happens at
17 the shoreline. It's a moon show along with
18 sidelines as the incoming water gently lifts
19 them, and osprey diving, tiny fish jumping,
20 horseshoe crabs mating, an inkling of an
21 enormous world under the surface, rich with life
22 all interdependent on the rest. Millions have
23 come to experience this ocean. It's not my

41

1 backyard but one that belongs to all. Ocean
 2 gazing is a major activity here enriching our
 3 souls, providing a backdrop for creativity, for
 4 expanding our boundaries, healing our souls, for
 5 opening our hearts. It can fill us with joy and
 6 inspiration. Its vastness can hold our despair,
 7 our pain and confusion and give us back peace.
 8 Some feel our lives depend on it, the frequent
 9 nurturing and delights the ocean provides. This
 10 basic human feeling is so difficult to find
 11 words for and almost impossible to explain.

12 I say to everyone to take a few
 13 moments each day to go to the ocean's edge and
 14 gaze out letting yourself melt into that and
 15 opening your soul to the grace that is there for
 16 you. Come to your senses breathing in the
 17 richness of life above and below the surface
 18 connecting the ancient mysteries held there.

19 That's what I think needs to be
 20 protected for everybody forever. No
 21 industrialization in the ocean at all in the
 22 nearby coastal waters.

23 MR. BABB-BROTT: Thank you very

42

1 much. Was there someone else?
 2 Good evening. I'm Chris Borke.
 3 I'm a citizen of the village of Commaquid and
 4 I'm speaking here tonight just as a citizen, but
 5 I'm a member of the faculty here, adjunct
 6 faculty here in the renewable energy resources
 7 curriculum. I'm also a participant of the Cape
 8 and Islands Renewable Energy Collaborative.

9 Massachusetts can not protect its
 10 coastal assets, become more energy independent,
 11 release its carbon footprint and realize that
 12 that can help growth potential without
 13 capitalizing on its abundant offshore renewable
 14 resource base. I think it's really important
 15 that the Ocean Plan look at renewable energy as
 16 a solution for a whole bunch of problems and not
 17 as an industrial or development opportunity that
 18 really needs to be managed. It needs to be
 19 looked at as an opportunity. So I want to
 20 mention three primary points about the ocean
 21 management process as it looks to renewable
 22 resources as an opportunity.

23 First, the process should be

43

1 driven by the aggressive goals for the energy
 2 future that are defined in the Renewable
 3 Energies Act, the Global Warming Solutions Act,
 4 the Green Jobs Act. These are all companion
 5 pieces of legislation that were passed this
 6 year. They should also look at complimentary to
 7 the Ocean Management Act and they should really
 8 drive some of the outcomes.

9 Second, the planning process
 10 should extend into the federal waters which
 11 offer an even more abundant resource base and
 12 great potential rewards. I note the process is
 13 geared towards a state ocean management plan but
 14 it's really impossible not to look in the
 15 federal waters and consider what might happen
 16 out there as the federal framework gets
 17 developed. And also if you notice that any
 18 project that does get developed out there may
 19 have impacts on state waters and also on any
 20 cable and circuit that is going to have to come
 21 through state waters. So the process should
 22 really look at the federal resource base out
 23 there.

44

1 Third, the process must be truly
 2 transparent and community based. Holding
 3 listening session throughout the state is
 4 definitely a start but there's a difference
 5 between listening and hearing. And what you
 6 hear from this region I think will be much
 7 different if local communities are empowered to
 8 assess the options with the trade offs and help
 9 determine the outcomes of the process. This
 10 means -- I don't think you can rely on existing
 11 data. You need to do a comprehensive inventory
 12 of the off shore resource base and the
 13 conflicting interests.

14 You need to quantify costs and
 15 benefits associated with individual
 16 technologies, be they conventional off shore
 17 wind technologies, deep water, transitional
 18 water technology, wave tidal. And you also need
 19 to look at different sites and bearing project
 20 timelines and scales on these technologies are
 21 at different stages of commercialization.
 22 There's a cost of waiting as we go forward when
 23 we think about the climate change and other

45

1 issues.

2 You also need to help make

3 connections between the resource development

4 that might occur in our local economy, our

5 environment, our well-being now and into the

6 future. And you need to do all these things in

7 partnership with local stakeholders, working

8 with them to communicate what we learn through

9 assessing existing information, developing new

10 information, working with them to communicate

11 this information to the public, collect feedback

12 from the public and then together define

13 pathways for moving forward based on community

14 consensus. I think that model is really going

15 to be critical. If outside entities, developers

16 or even the state control the siting and size of

17 offshore projects in local waters, local

18 opposition is going to happen. That's the way

19 it is.

20 By contrast, I think community

21 planning experiences indicate that there will be

22 support for projects offering local control and

23 benefit. To be specific, as a participant in

46

1 the Cape and Islands Renewable Energy

2 Collaborative I helped initiate a beyond Cape

3 Wind planning process. We all know about the

4 different opinions about what I like to call the

5 project that must not be named. Together we

6 created an ambitious regional energy action plan

7 that includes the goal of harnessing enough

8 renewable energy to meet one hundred percent of

9 this region's needs for electricity by the year

10 2020.

11 We're working to implement that.

12 So everybody that came to the table, that's

13 opponents and proponents of the project that

14 must not be named, agreed we need large scale

15 off shore development somewhere at some point

16 before 2020. The challenge is to figure out

17 where and when and how to minimize the adverse

18 impact and maximize local benefits.

19 We are working on implementing

20 that. It includes an ongoing effort to craft a

21 Cape and Islands energy technology strategy that

22 includes conservation, efficiency, land bases

23 and off shore renewable and electrification.

47

1 And all that is geared towards addressing

2 affordability issues, energy emissions control

3 and growth in local communities.

4 The energy plan has been formed in

5 part by a survey of elected officials and

6 candidates. It was completed a couple years

7 ago. I will close by summarizing a couple

8 findings from that survey. Again it was with

9 elected officials and candidates for office. So

10 we presume that they represent the local

11 communities as well. These findings are of

12 particular relevance to due process.

13 Sixty-seven percent of the

14 respondents believe that the Cape and Islands

15 communities should have the final say on project

16 siting and sizing for offshore renewable

17 projects in local waters.

18 Seventy-five percent believe that

19 local officials should receive preferential

20 employment opportunities and that local

21 communities should receive mitigation fees for

22 adverse impact.

23 Ninety-two percent believe that

48

1 local communities should receive opportunities

2 for public ownership and that offshore projects

3 should include public and private sector

4 investments and complimentary education,

5 research and economic development initiatives.

6 And a hundred percent of everybody

7 who responded believed that the local

8 communities should receive long term stable

9 power supply contracts and that this region

10 should be working aggressively toward a long

11 term goal of energy independence.

12 So it's really about localizing

13 benefits if you want to through this process,

14 get support for projects that might occur in

15 specific areas some day. You've got to get to

16 how are local communities going to benefit and

17 what might be done to mitigate adverse impacts.

18 So those of you who don't live on

19 the Cape, when you do cross the canal and head

20 back home tonight, when the other listening

21 sessions are done, do view these listening

22 sessions as a starting point to an expansive

23 important dialogue consistent with the

49

1 Commonwealth's policy objectives and the wants
 2 and needs and aspirations of the local
 3 communities. Thank you.
 4 MR. BABB-BROTT: Thank you, Chris.
 5 THE FLOOR: That's my son.
 6 MR. BABB-BROTT: Is there anyone
 7 else who has children who have not signed up to
 8 speak and wish to say a few words? If not,
 9 thank you all for coming this evening. We do
 10 plan as Chris talked about, continuing the
 11 process and being back down here. Please look
 12 at the materials on the web page. It gives you
 13 information so we can stay in touch with you and
 14 we look forward to working with you in the
 15 future on this. Thanks folks.
 16 (The hearing was adjourned at 8:00
 17 p.m.)
 18
 19
 20
 21
 22
 23

51

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

50

1 C E R T I F I C A T E
 2
 3
 4
 5
 6 I, Carolyn McGill, a Notary Public in
 7 and for the State of Massachusetts, do hereby
 8 certify that the foregoing transcript of the
 9 public listening session of the Massachusetts
 10 Ocean Planning Committee held on Monday, October
 11 20, 2008 at Cape Cod Community College is true
 12 and accurate to the best of my knowledge, skill
 13 and ability.
 14
 15
 16
 17 Carolyn McGill
 18
 19
 20
 21
 22
 23

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

0	achieve [2] - 10:4; 13:13	aggressively [1] - 48:10	26:11; 27:1, 17; 48:15	Bass [1] - 22:9
09 [1] - 21:3	acquisition [1] - 17:15	ago [2] - 39:15; 47:7	aspect [2] - 22:20; 31:9	Bats [1] - 39:21
1	act [12] - 14:1, 8, 16, 20; 15:1, 7, 18; 17:18; 22:1, 21; 32:21	agreed [1] - 46:14	aspirations [1] - 49:2	bats [1] - 39:22
10,000 [1] - 32:13	Act [14] - 9:8; 10:5, 15; 13:22; 14:15; 15:10, 15; 16:3; 27:4; 43:3, 7	ahead [3] - 8:23; 22:17; 33:1	assess [1] - 44:8	bay [1] - 23:16
2	action [1] - 46:6	ahold [1] - 27:22	assessing [1] - 45:9	Bay [4] - 8:3, 5; 30:12; 35:11
20 [2] - 1:5; 50:11	activities [2] - 12:17; 15:6	Air [1] - 8:2	assets [1] - 42:10	beach [5] - 15:13; 27:19; 35:15, 19, 21
2007 [1] - 40:13	activity [1] - 41:2	Alliance [1] - 28:4	assistance [1] - 14:17	beaches [1] - 22:9
2008 [4] - 1:5; 13:22; 14:15; 50:11	actual [1] - 17:2	alliance [1] - 28:7	Assistant [1] - 3:6	Beacon [1] - 5:8
2020 [2] - 46:10, 16	additional [1] - 21:5	allow [2] - 17:17; 28:18	associated [1] - 44:15	bearing [1] - 44:19
21 [1] - 2:7	address [4] - 13:2, 5; 15:8	allowable [1] - 16:5	Association [2] - 3:17; 22:14	beautiful [1] - 35:21
3	addressed [1] - 5:22	allowed [2] - 15:6, 11	ASTELIS [1] - 4:3	become [1] - 42:10
3 [1] - 2:3	addresses [1] - 12:2	almost [2] - 40:15; 41:11	Atselis [2] - 3:14; 4:1	Bedford [2] - 24:18; 27:13
3/10ths [1] - 12:22	addressing [1] - 47:1	alternative [3] - 12:8; 20:10, 15	Audubon [1] - 3:20	begin [5] - 6:14; 17:10; 19:3, 17; 29:10
30 [1] - 16:21	adjourned [1] - 49:16	ambitious [1] - 46:6	availability [1] - 10:10	begins [1] - 12:22
31 [1] - 16:23	Adjournment [1] - 2:9	Amherst [1] - 26:8	available [1] - 10:11	behalf [2] - 3:3; 24:20
4	adjudicating [1] - 47:1	analyzing [2] - 18:8, 21	avoid [2] - 29:6; 31:10	belongs [2] - 14:4; 41:1
49 [1] - 2:9	advised [1] - 49:16	ancient [1] - 41:18	B	below [1] - 41:17
7	advisory [1] - 14:18	anecdotal [1] - 40:3	BABB [12] - 3:1; 9:4; 23:4, 19; 27:23; 30:16; 32:8; 35:6; 37:14; 41:23; 49:4, 6	benefit [4] - 14:23; 29:15; 45:23; 48:16
7:06 [1] - 1:10	Advisory [7] - 3:11, 18, 21; 10:1; 14:17; 18:5; 19:6	animals [1] - 35:16	Babb [1] - 3:6	benefits [7] - 34:20-22; 44:15; 46:18; 48:13
8	advocating [1] - 32:14	answer [1] - 17:10	BABB-BROTT [12] - 3:1; 9:4; 23:4, 19; 27:23; 30:16; 32:8; 35:6; 37:14; 41:23; 49:4, 6	best [3] - 29:23; 34:11; 50:12
8:00 [2] - 1:10; 49:16	Affairs [1] - 3:5	anyway [1] - 30:22	Babb-Brott [1] - 3:6	better [2] - 18:13; 25:6
9	affect [1] - 25:13	apart [1] - 30:13	backdrop [1] - 41:3	between [4] - 13:11; 26:19; 44:5; 45:3
9 [1] - 2:5	affected [1] - 35:11	apologize [3] - 5:4; 6:23; 21:18	backyard [1] - 41:1	Beyond [1] - 29:19
A	affordability [1] - 47:2	appeal [1] - 26:2	balance [6] - 11:14; 12:12; 13:12; 14:13; 24:5; 26:19	beyond [2] - 29:20; 46:2
ability [2] - 34:16; 50:13	agencies [4] - 12:19; 18:14, 16	appeals [2] - 26:1, 5	Babb [1] - 3:6	big [3] - 33:16; 39:4
able [10] - 7:23; 10:9, 12; 11:2, 4; 33:6; 35:10, 22; 37:2, 6	agency [1] - 25:22	application [1] - 19:8	BABB-BROTT [12] - 3:1; 9:4; 23:4, 19; 27:23; 30:16; 32:8; 35:6; 37:14; 41:23; 49:4, 6	bill [5] - 4:8; 5:13; 7:16; 13:16; 16:11
abundant [2] - 42:13; 43:11	agenda [3] - 5:21; 6:2; 9:6	approach [3] - 29:6, 16; 31:11	Babb-Brott [1] - 3:6	Birds [1] - 39:14
acceptance [1] - 31:8	aggressive [1] - 43:1	appropriate [12] - 15:5, 17, 22; 16:2; 29:21; 31:3, 11, 14; 32:2; 36:21	backdrop [1] - 41:3	birds [11] - 34:22; 38:6, 10-11, 16-17; 39:1, 9, 17-18, 20
accurate [1] - 50:12		approved [1] - 22:23	backyard [1] - 41:1	bit [2] - 4:21; 9:12
		approvals [1] - 12:15	balance [6] - 11:14; 12:12; 13:12; 14:13; 24:5; 26:19	blades [4] - 33:16
		April [1] - 19:11	BARNSTABLE [1] - 1:8	blue [2] - 13:2, 5
		area [13] - 10:16; 12:22; 20:14; 23:16; 25:12; 29:7; 30:5, 8; 31:12; 33:2; 37:1; 40:7, 9	base [4] - 42:14; 43:11, 22; 44:12	Blue [1] - 36:10
		areas [8] - 14:12; 15:13; 16:15; 17:4;	based [9] - 9:21; 13:8; 17:22; 18:10; 21:10; 29:13; 30:1; 44:2; 45:13	Board [1] - 32:12
			bases [1] - 46:22	board [1] - 13:19
			basic [2] - 17:23; 41:10	book [2] - 39:11

<p>Borke ^[1] - 42:2 boss ^[1] - 3:3 Boston ^[3] - 7:22; 8:6; 26:8 boundaries ^[1] - 41:4 bowled ^[2] - 36:6, 8 Bowles ^[1] - 3:5 boy ^[1] - 7:18 breathing ^[1] - 41:16 brief ^[2] - 4:4; 7:12 bring ^[3] - 4:14; 31:6; 33:9 bringing ^[2] - 7:15; 25:16 brings ^[1] - 17:8 broad ^[1] - 9:21 broad-based ^[1] - 9:21 BROTT ^[12] - 3:1; 9:4; 23:4, 19; 27:23; 30:16; 32:8; 35:6; 37:14; 41:23; 49:4, 6 Brott ^[1] - 3:6 brought ^[1] - 32:18 build ^[3] - 6:17; 20:19; 27:3 building ^[1] - 36:14 built ^[2] - 18:7; 37:2 bump ^[1] - 19:16 bunch ^[1] - 42:16 burning ^[1] - 33:4 business ^[1] - 8:13 Buzzards ^[1] - 30:12 BY ^[5] - 3:1; 4:3, 19; 7:11; 9:4</p>	<p>16; 23:16; 29:1; 30:13; 31:16; 33:2, 6; 34:3; 35:11; 36:5; 38:1; 39:15; 40:13; 42:7; 46:1, 21; 47:14; 48:19; 50:11 capitalize ^[1] - 15:3 capitalizing ^[1] - 42:13 carbon ^[1] - 42:11 carefully ^[1] - 38:20 cares ^[1] - 37:9 Carolyn ^[2] - 50:6, 17 case ^[1] - 30:15 cat ^[1] - 35:18 catch ^[1] - 22:2 CCN ^[1] - 25:10 certainly ^[1] - 9:15 certify ^[1] - 50:8 challenge ^[1] - 46:16 chamber ^[1] - 7:21 chance ^[1] - 40:11 change ^[1] - 44:23 changes ^[1] - 25:17 changing ^[1] - 5:18 channel ^[1] - 13:3 channels ^[1] - 27:11 charge ^[1] - 4:6 children ^[2] - 36:1; 49:7 Chris ^[3] - 42:2; 49:4, 10 circuit ^[1] - 43:20 citizen ^[3] - 37:22; 42:3 claim ^[1] - 29:7 Clark ^[1] - 3:19 class ^[2] - 4:23; 5:3 Clean ^[1] - 32:12 clean ^[3] - 27:15, 18; 33:12 clear ^[2] - 5:7; 7:18 clearly ^[1] - 14:4 climate ^[1] - 44:23 close ^[1] - 47:7 coast ^[3] - 34:12; 38:8 Coastal ^[1] - 3:7 coastal ^[2] - 41:22; 42:10</p>	<p>Cod ^[11] - 3:16; 8:3, 5; 23:16; 31:17; 33:2, 6; 34:3; 39:15; 40:13; 50:11 COD ^[1] - 1:7 coexist ^[2] - 8:10 Collaborative ^[2] - 42:8; 46:2 colleague ^[1] - 7:9 colleagues ^[3] - 4:9; 5:6, 11 collect ^[1] - 45:11 collecting ^[1] - 18:7 College ^[1] - 50:11 COLLEGE ^[1] - 1:7 combining ^[1] - 25:8 coming ^[10] - 3:3, 9; 19:19; 22:15, 21; 23:2, 22; 24:7; 37:20; 49:9 Commaquid ^[1] - 42:3 comments ^[5] - 9:11; 10:1, 18; 18:4; 21:9 Comments ^[1] - 2:7 COMMENTS ^[4] - 4:3, 19; 7:11; 21:21 Commercial ^[1] - 3:16 commercial ^[2] - 3:17; 26:20 commercializati on ^[1] - 44:21 commission ^[4] - 24:15, 19; 28:3, 11 Commission ^[10] - 3:11, 19, 21; 14:17; 18:5; 19:6; 25:20; 31:17 commissions ^[3] - 26:1, 10; 32:3 Commissions ^[1] - 23:9 Committee ^[1] - 50:10 Commonwealth ^[1] - 25:14 Commonwealth' s ^[2] - 14:21; 49:1 commotion ^[1] - 10:21 communicate ^[2] -</p>	<p>45:8, 10 communities ^[11] - 27:6; 36:20; 44:7; 47:3, 11, 15, 21; 48:1, 8, 16; 49:3 community ^[6] - 29:14; 36:6; 37:7; 44:2; 45:13, 20 Community ^[1] - 50:11 COMMUNITY ^[1] - 1:7 companion ^[1] - 43:4 competing ^[4] - 5:19; 6:20; 8:9 completed ^[1] - 47:6 complimentary ^[2] - 43:6; 48:4 component ^[3] - 17:13; 26:15 components ^[1] - 17:2 comprehensive ^[2] - 14:19; 44:11 computer ^[1] - 11:3 concentration ^[1] - 19:15 concept ^[1] - 23:23 concern ^[1] - 31:2 concerned ^[2] - 22:8; 39:23 concerns ^[1] - 38:3 conch ^[1] - 35:17 conditions ^[1] - 30:3 conducting ^[1] - 19:20 conference ^[1] - 40:5 configuration ^[1] - 33:15 conflict ^[1] - 12:6 conflicting ^[1] - 44:13 conflicts ^[2] - 19:13; 20:6 confusion ^[1] - 41:7 congratulate ^[1] - 7:14 connecting ^[1] - 41:18 connections ^[1] -</p>	<p>45:3 consensus ^[3] - 29:13, 16; 45:14 conservation ^[2] - 26:10; 46:22 Conservation ^[1] - 23:9 consider ^[6] - 14:6; 16:1, 13, 17; 25:17; 43:15 consideration ^[4] - 32:23; 35:4; 36:20; 37:7 consistent ^[4] - 12:15, 18; 15:16; 48:23 consolidate ^[1] - 24:13 contact ^[1] - 10:8 contaminated ^[1] - 27:13 contamination ^[1] - 33:3 context ^[1] - 13:20 continuing ^[1] - 49:10 contracts ^[1] - 48:9 contrast ^[1] - 45:20 control ^[3] - 45:16, 22; 47:2 conventional ^[1] - 44:16 correct ^[1] - 23:4 cost ^[3] - 24:11; 33:12; 44:22 costs ^[2] - 28:17; 44:14 Counsel ^[1] - 10:2 counsel ^[1] - 14:18 countries ^[1] - 38:17 country ^[3] - 29:17; 34:8; 39:5 couple ^[4] - 28:10; 40:12; 47:6 course ^[4] - 21:2; 29:3; 33:4; 39:22 crab ^[1] - 40:5 crabs ^[4] - 35:16; 39:23; 40:2, 20 craft ^[1] - 46:20 created ^[2] - 30:11; 46:6 creating ^[1] - 29:23</p>	
C					
<p>cable ^[1] - 43:20 campus ^[1] - 5:1 campuses ^[1] - 26:8 canal ^[1] - 48:19 candidates ^[2] - 47:6, 9 cap ^[1] - 27:16 CAPE ^[1] - 1:7 Cape ^[28] - 3:16; 4:11; 7:5; 8:1, 3, 5,</p>					

<p>creation ^[1] - 30:5 creativity ^[1] - 41:3 critical ^[1] - 45:15 cross ^[1] - 48:19 cube ^[1] - 33:20 cubed ^[1] - 33:23 Cuisinarts ^[1] - 39:19 curiosity ^[1] - 22:1 current ^[1] - 32:17 curriculum ^[1] - 42:7 curve ^[1] - 8:23 cut ^[1] - 4:14 cuts ^[1] - 26:3</p>	<p>13; 32:2 definitions ^[1] - 16:1 delegation ^[1] - 4:11 delights ^[1] - 41:9 demands ^[1] - 13:12 Demetrius ^[3] - 3:14; 4:20, 22 Dennis ^[2] - 21:22; 24:19 DEP ^[2] - 23:20; 25:9 departments ^[1] - 24:23 depth ^[1] - 34:15 describe ^[2] - 3:12; 40:15 described ^[1] - 17:3 describes ^[1] - 40:14 describing ^[1] - 9:23 designates ^[1] - 26:23 designed ^[1] - 12:11 despair ^[1] - 41:6 determine ^[1] - 44:9 detriment ^[1] - 15:4 develop ^[7] - 9:21; 14:18; 17:11, 18; 18:5, 9 developed ^[5] - 36:18; 37:6; 43:17 developer ^[2] - 29:6 developers ^[1] - 45:15 developing ^[4] - 9:20; 16:8; 17:22; 45:9 development ^[9] - 12:1, 12; 13:12; 17:5; 31:23; 42:17; 45:3; 46:15; 48:5 dial ^[1] - 11:3 dialogue ^[1] - 48:23 difference ^[2] - 37:5; 44:4 differences ^[1] - 6:4 different ^[18] - 12:3, 9; 16:18; 18:18; 19:12; 20:9; 24:3, 22-23; 25:1, 3; 27:5; 36:18; 44:7, 19, 21;</p>	<p>46:4 Different ^[1] - 12:9 difficult ^[1] - 41:10 directions ^[1] - 25:3 directly ^[3] - 22:21; 25:5; 35:11 Director ^[1] - 28:4 director ^[2] - 24:14; 25:16 Directors ^[1] - 32:12 directs ^[4] - 14:16, 20; 15:1; 16:4 disaster ^[2] - 8:14; 33:7 discipline ^[1] - 17:7 discussion ^[1] - 6:1 disposed ^[1] - 27:15 district ^[1] - 7:8 diving ^[1] - 40:19 Division ^[1] - 16:6 DMF ^[1] - 16:7 docks ^[1] - 13:2 doctrine ^[1] - 5:21 dollars ^[1] - 23:1 done ^[13] - 9:9, 13; 18:23; 19:4; 36:23; 38:9, 21; 40:7; 48:17, 21 door ^[5] - 4:22; 7:2; 10:7; 23:12; 30:10 doubled ^[1] - 33:21 down ^[9] - 3:15; 8:6; 19:5; 20:22; 21:16; 26:3; 30:14; 35:18; 49:11 draft ^[4] - 16:22; 20:19, 22; 28:11 draw ^[1] - 27:8 dredged ^[1] - 27:12 dredging ^[4] - 12:7; 13:4; 26:21; 27:13 drive ^[3] - 8:2; 31:8; 43:8 driven ^[2] - 29:6; 43:1 drops ^[2] - 34:14, 16 due ^[1] - 47:12 during ^[2] - 35:2; 38:10</p>	<p style="text-align: center;">E</p> <p>e-mail ^[1] - 10:8 eager ^[2] - 8:19; 9:3 early ^[3] - 4:15; 6:8; 21:3 east ^[2] - 34:12; 38:8 easy ^[1] - 21:14 ecologically ^[1] - 8:11 economic ^[6] - 13:8, 14; 15:3; 18:8; 31:21; 48:5 economy ^[2] - 26:16; 45:4 edge ^[1] - 41:13 education ^[2] - 26:14; 48:4 EEA ^[1] - 21:6 effective ^[1] - 11:17 efficiencies ^[1] - 26:17 efficiency ^[3] - 24:11; 25:6; 46:22 efficient ^[1] - 33:12 effort ^[4] - 5:9; 6:11; 46:20 efforts ^[2] - 4:10; 31:4 eight ^[4] - 18:23; 34:1, 5; 38:11 eighteen ^[1] - 9:18 elaborate ^[1] - 6:17 elected ^[2] - 47:5, 9 electrical ^[2] - 33:18; 34:1 electricity ^[1] - 46:9 electrification ^[1] - 46:23 elsewhere ^[1] - 26:9 embedded ^[1] - 14:1 emissions ^[1] - 47:2 emphasis ^[1] - 20:10 employment ^[1] - 47:20 empowered ^[1] - 44:7 end ^[1] - 18:1 endangered ^[1] -</p>	<p>38:18 ends ^[1] - 25:12 Energies ^[1] - 43:3 energies ^[2] - 20:10, 15 Energy ^[3] - 3:4; 42:8; 46:1 energy ^[22] - 12:8; 14:9; 15:12, 14; 29:18; 31:4; 32:15, 17; 33:7, 10; 34:20; 35:3; 42:6, 10, 15; 43:1; 46:6, 8, 21; 47:2, 4; 48:11 engineers ^[1] - 18:17 enhance ^[1] - 14:7 enhancing ^[1] - 14:9 enormous ^[1] - 40:21 enriching ^[1] - 41:2 ensure ^[2] - 26:19; 30:2 enthusiastic ^[1] - 8:18 entities ^[1] - 45:15 environment ^[5] - 5:17; 13:13; 34:22; 38:4; 45:5 environmental ^[6] - 3:20; 5:12; 13:8; 18:8; 30:3; 31:21 Environmental ^[1] - 3:4 environmentally ^[1] - 8:12 equipment ^[1] - 10:20 especially ^[1] - 26:16 essentially ^[1] - 18:1 estimated ^[1] - 39:16 evaluations ^[2] - 19:21; 26:11 evening ^[19] - 3:2, 9-10, 13, 22; 9:6, 17; 10:2, 19; 11:9, 21; 19:23; 23:21; 28:2, 12; 32:10; 35:8; 42:2; 49:9 evidence ^[1] - 40:3 evident ^[1] - 28:15</p>
D				
<p>dam ^[1] - 25:10 dams ^[1] - 25:11 Dartmouth ^[1] - 26:8 data ^[5] - 13:9; 17:15; 18:9; 19:12; 44:11 DCR ^[1] - 25:9 DEA ^[1] - 10:3 deal ^[3] - 6:14, 19; 23:12 dealing ^[3] - 23:7; 27:8; 29:12 dear ^[2] - 7:17, 19 December ^[2] - 16:23; 21:3 decision ^[2] - 26:3, 6 decisions ^[3] - 13:20; 18:13; 25:2 deep ^[1] - 44:17 deeper ^[1] - 13:5 Deerin ^[3] - 3:5; 27:21; 28:2 defending ^[2] - 28:16; 29:9 define ^[4] - 10:3; 15:18; 17:16; 45:12 defined ^[1] - 43:2 defining ^[2] - 14:13; 20:22 definite ^[1] - 33:11 definitely ^[2] - 32:15; 44:4 definition ^[3] - 31:3,</p>				

<p>example [3] - 15:10; 34:4, 9</p> <p>exceeds [1] - 17:7</p> <p>exceptional [1] - 39:15</p> <p>excited [1] - 22:1</p> <p>exclusive [1] - 16:6</p> <p>executive [1] - 9:19</p> <p>Executive [1] - 28:4</p> <p>exercise [2] - 29:15; 31:9</p> <p>existing [7] - 18:8; 24:14; 27:10; 30:3; 31:18; 44:10; 45:9</p> <p>expanding [1] - 41:4</p> <p>expansive [1] - 48:22</p> <p>expensive [1] - 34:17</p> <p>experience [7] - 6:16; 11:12; 21:11; 38:5, 16; 40:14, 23</p> <p>experiences [1] - 45:21</p> <p>experts [2] - 18:15; 40:6</p> <p>explain [1] - 41:11</p> <p>exposed [1] - 24:8</p> <p>extend [1] - 43:10</p> <p>extends [1] - 12:23</p> <p>extensively [2] - 16:12; 28:19</p> <p>extremely [2] - 34:17</p>	<p>farm [1] - 36:11</p> <p>fast [3] - 8:4; 21:4; 34:16</p> <p>February [1] - 19:11</p> <p>federal [5] - 18:16; 43:10, 15-16, 22</p> <p>feed [1] - 21:12</p> <p>feedback [2] - 8:20; 45:11</p> <p>fees [1] - 47:21</p> <p>Ferro [1] - 21:20</p> <p>ferry [2] - 8:1, 4</p> <p>few [5] - 9:23; 24:8; 34:3; 41:12; 49:8</p> <p>field [2] - 8:8; 18:15</p> <p>fifteen [1] - 7:2</p> <p>figure [2] - 22:19; 46:16</p> <p>figured [1] - 22:2</p> <p>fill [2] - 6:15; 41:5</p> <p>final [2] - 31:1; 47:15</p> <p>findings [2] - 47:8, 11</p> <p>First [3] - 23:22; 31:7; 42:23</p> <p>first [11] - 4:16; 5:5; 6:12; 7:16; 9:19; 17:11, 23; 18:20; 28:15, 21; 29:19</p> <p>fish [4] - 16:16; 22:7; 34:23; 40:19</p> <p>Fisheries [1] - 16:7</p> <p>fisheries [2] - 16:9</p> <p>Fishermans [1] - 3:17</p> <p>fishermen [2] - 16:13, 16</p> <p>fishing [9] - 3:18; 5:13; 16:4, 11; 18:17; 20:11; 22:8; 23:2; 26:20</p> <p>fits [1] - 31:11</p> <p>five [4] - 17:21; 28:12; 35:12; 47:18</p> <p>fleets [1] - 23:2</p> <p>FLOOR [4] - 21:21; 23:5; 30:18; 49:5</p> <p>Floor [1] - 2:7</p> <p>floor [2] - 7:20; 40:1</p> <p>fly [2] - 8:1, 5</p> <p>flying [2] - 8:3</p> <p>flyway [1] - 38:8</p>	<p>flyways [2] - 39:4, 6</p> <p>focus [1] - 24:10</p> <p>focussed [3] - 28:7; 37:12; 38:13</p> <p>folks [19] - 3:2; 9:10, 14-15; 10:7, 12, 17; 11:2, 18; 14:3; 15:21, 23; 19:4; 20:1, 3; 24:6; 37:15, 20; 49:15</p> <p>followed [1] - 38:1</p> <p>footprint [1] - 42:11</p> <p>foregoing [1] - 50:8</p> <p>foremost [2] - 29:19; 31:7</p> <p>forever [1] - 41:20</p> <p>form [2] - 8:21; 10:17</p> <p>formal [3] - 17:12; 21:1</p> <p>formed [1] - 47:4</p> <p>formerly [1] - 16:23</p> <p>formulate [1] - 4:7</p> <p>forth [4] - 4:8; 7:15; 10:4; 14:20</p> <p>fortunate [2] - 7:23; 31:16</p> <p>forward [6] - 20:19, 23; 32:5; 44:22; 45:13; 49:14</p> <p>fossil [1] - 33:4</p> <p>foster [1] - 15:2</p> <p>foundation [1] - 26:23</p> <p>foundations [2] - 27:2; 34:18</p> <p>four [3] - 17:23; 20:23; 30:4</p> <p>framework [4] - 6:14, 17; 17:3; 43:16</p> <p>frankly [2] - 5:12; 6:3</p> <p>frequent [1] - 41:8</p> <p>friend [1] - 23:20</p> <p>friends [1] - 4:8</p> <p>FROM [1] - 21:21</p> <p>front [1] - 6:2</p> <p>fuels [1] - 33:4</p> <p>full [1] - 16:14</p> <p>fund [1] - 22:22</p> <p>funding [1] - 22:21</p> <p>future [5] - 18:12; 36:22; 43:2; 45:6; 49:15</p>	<p style="text-align: center;">G</p> <p>game [2] - 4:16</p> <p>gas [1] - 15:12</p> <p>gathered [1] - 20:5</p> <p>gathering [1] - 18:2</p> <p>gaze [1] - 41:14</p> <p>gazing [1] - 41:2</p> <p>geared [2] - 43:13; 47:1</p> <p>general [1] - 22:22</p> <p>generally [1] - 32:1</p> <p>generating [1] - 33:13</p> <p>generations [2] - 35:12, 23</p> <p>gently [1] - 40:18</p> <p>geographic [2] - 30:8; 31:12</p> <p>given [2] - 33:14, 18</p> <p>glad [1] - 30:20</p> <p>Global [1] - 43:3</p> <p>GMO [1] - 23:10</p> <p>goal [3] - 9:20; 46:7; 48:11</p> <p>goals [3] - 14:21; 31:19; 43:1</p> <p>governance [1] - 24:10</p> <p>government [1] - 9:1</p> <p>Governor [1] - 14:15</p> <p>grace [1] - 41:15</p> <p>grandchildren [1] - 36:2</p> <p>grandson [2] - 35:14</p> <p>grass [3] - 8:20; 35:19, 21</p> <p>great [3] - 7:9; 11:19; 43:12</p> <p>Great [1] - 4:10</p> <p>Green [1] - 43:4</p> <p>grew [1] - 35:13</p> <p>ground [1] - 23:1</p> <p>groundwork [1] - 17:13</p> <p>group [1] - 5:9</p> <p>groups [5] - 5:12; 18:14, 17; 22:12</p> <p>grown [1] - 36:2</p>	<p>growth [2] - 42:12; 47:3</p> <p>guide [3] - 11:23; 18:6; 31:23</p> <p>Gulf [2] - 22:13; 23:11</p> <p>guys [1] - 22:4</p> <p style="text-align: center;">H</p> <p>habitat [1] - 20:14</p> <p>Hampshire [1] - 23:15</p> <p>handout [2] - 11:5, 7</p> <p>handouts [1] - 10:14</p> <p>hands [1] - 19:20</p> <p>hands-on [1] - 19:20</p> <p>handwriting [1] - 21:19</p> <p>happy [2] - 11:9; 21:14</p> <p>harbor [3] - 13:3; 24:1; 27:14</p> <p>hard [1] - 30:19</p> <p>harmful [1] - 38:23</p> <p>harnessing [1] - 46:7</p> <p>head [2] - 5:3; 48:19</p> <p>heading [1] - 4:22</p> <p>heads [1] - 24:23</p> <p>healing [1] - 41:4</p> <p>health [2] - 33:1; 34:21</p> <p>hear [13] - 6:13; 7:13; 8:19; 9:3, 12; 11:9; 14:2; 19:23; 21:14, 17, 23; 26:2; 44:6</p> <p>heard [1] - 36:16</p> <p>hearing [4] - 15:21; 26:5; 44:5; 49:16</p> <p>hearings [3] - 16:22; 21:2; 25:23</p> <p>heart [3] - 7:7, 17, 19</p> <p>hearts [1] - 41:5</p> <p>held [3] - 14:22; 41:18; 50:10</p> <p>Helmes [1] - 35:7</p> <p>help [9] - 8:21; 10:1; 18:6; 20:18; 23:1; 26:9; 42:12; 44:8; 45:2</p>
<p style="text-align: center;">F</p> <p>facilitating [1] - 14:9</p> <p>facilities [4] - 15:6, 10, 12, 14</p> <p>fact [3] - 7:1; 34:12; 39:20</p> <p>factors [1] - 15:23</p> <p>faculty [2] - 42:5</p> <p>fair [1] - 22:5</p> <p>fairly [1] - 9:6</p> <p>familiar [1] - 34:19</p> <p>family [1] - 35:23</p> <p>far [6] - 11:4; 17:7; 20:5; 22:16; 23:3; 33:5</p>				

<p>helped ^[1] - 46:2</p> <p>helpful ^[1] - 7:4</p> <p>Hemisphere ^[1] - 39:14</p> <p>hereby ^[1] - 50:7</p> <p>hermit ^[1] - 35:16</p> <p>Hi ^[1] - 37:21</p> <p>higher ^[1] - 34:4</p> <p>highest ^[1] - 29:23</p> <p>Hill ^[1] - 5:8</p> <p>hold ^[1] - 41:6</p> <p>holding ^[2] - 9:19; 25:23</p> <p>Holding ^[1] - 44:2</p> <p>home ^[2] - 35:13; 48:20</p> <p>hope ^[2] - 5:3; 35:1</p> <p>hopefully ^[1] - 6:19</p> <p>horseshoe ^[3] - 39:23; 40:5, 20</p> <p>Horseshoe ^[5] - 33:22; 34:5, 9; 40:2, 4</p> <p>hour ^[1] - 33:21</p> <p>House ^[2] - 5:11; 7:21</p> <p>house ^[1] - 7:21</p> <p>huge ^[1] - 23:16</p> <p>human ^[1] - 41:10</p> <p>hundred ^[2] - 46:8; 48:6</p>	<p>12:14</p> <p>implementing ^[2] - 16:8; 46:19</p> <p>important ^[12] - 4:6; 21:10; 26:23; 29:5; 32:23; 33:10; 34:6; 36:7; 38:8, 14; 42:14; 48:23</p> <p>Importantly ^[2] - 16:3; 19:18</p> <p>impossible ^[3] - 40:15; 41:11; 43:14</p> <p>improves ^[1] - 30:3</p> <p>inadequate ^[1] - 38:12</p> <p>include ^[3] - 10:14; 15:11; 48:3</p> <p>included ^[1] - 39:8</p> <p>includes ^[3] - 46:7, 20, 22</p> <p>incoming ^[1] - 40:18</p> <p>increase ^[2] - 18:12; 20:10</p> <p>increases ^[1] - 17:16</p> <p>independence ^[1] - 48:11</p> <p>independent ^[1] - 42:10</p> <p>indicate ^[1] - 45:21</p> <p>indicated ^[1] - 9:10</p> <p>indication ^[1] - 40:16</p> <p>individual ^[1] - 44:15</p> <p>industrial ^[1] - 42:17</p> <p>industrialization ^[2] - 38:23; 41:21</p> <p>industrialized ^[1] - 28:19</p> <p>info ^[1] - 10:13</p> <p>information ^[12] - 6:16; 10:11; 13:9; 14:3; 18:3; 20:5; 21:6; 26:13; 45:9-11; 49:13</p> <p>inhabit ^[1] - 14:11</p> <p>initiate ^[1] - 46:2</p> <p>initiative ^[1] - 4:12</p> <p>initiatives ^[1] - 48:5</p> <p>inkling ^[1] - 40:20</p> <p>input ^[1] - 32:6</p>	<p>inside ^[1] - 13:4</p> <p>inspiration ^[1] - 41:6</p> <p>intelligent ^[1] - 13:19</p> <p>intended ^[1] - 26:18</p> <p>intent ^[2] - 13:1, 15</p> <p>interaction ^[1] - 13:11</p> <p>interdependent ^[1] - 40:22</p> <p>interest ^[2] - 7:7; 20:15</p> <p>interested ^[3] - 11:10; 15:21; 18:15</p> <p>interests ^[11] - 5:19; 6:5; 8:9; 11:13; 20:11; 24:4; 25:13; 26:20; 28:16, 20</p> <p>interpretation ^[1] - 32:22</p> <p>intrests ^[1] - 44:13</p> <p>introduce ^[2] - 4:1; 7:3</p> <p>introduced ^[1] - 10:2</p> <p>inventory ^[1] - 44:11</p> <p>investments ^[1] - 48:4</p> <p>involved ^[1] - 24:1</p> <p>Island ^[2] - 23:12; 36:12</p> <p>islands ^[1] - 33:2</p> <p>Islands ^[6] - 30:13; 31:16; 42:8; 46:1, 21; 47:14</p> <p>issue ^[2] - 12:20; 24:9</p> <p>issued ^[1] - 12:17</p> <p>issues ^[9] - 6:4, 8, 20; 7:6; 13:5; 27:9; 32:19; 45:1; 47:2</p> <p>issuing ^[1] - 25:1</p> <p>Item ^[2] - 29:22; 30:4</p> <p>itself ^[1] - 23:8</p>	<p>jetty ^[1] - 27:17</p> <p>Jim ^[1] - 32:10</p> <p>Jobs ^[1] - 43:4</p> <p>John ^[3] - 3:15; 23:20; 27:23</p> <p>Joining ^[1] - 3:10</p> <p>joy ^[1] - 41:5</p> <p>jumping ^[1] - 40:19</p> <p>June ^[2] - 16:21; 20:20</p> <p>jurisdiction ^[2] - 12:21; 16:6</p> <p>jut ^[1] - 11:3</p>	<p>legislation ^[5] - 5:9, 23; 13:15; 30:11; 43:5</p> <p>Legislature ^[1] - 14:14</p> <p>legislature ^[3] - 7:5; 17:20; 21:1</p> <p>lessons ^[2] - 27:5; 29:3</p> <p>letting ^[1] - 41:14</p> <p>level ^[1] - 8:21</p> <p>Lewis ^[1] - 35:11</p> <p>life ^[3] - 34:23; 40:21; 41:17</p> <p>lifts ^[1] - 40:18</p> <p>limit ^[1] - 12:23</p> <p>line ^[1] - 11:6</p> <p>links ^[1] - 21:6</p> <p>list ^[5] - 9:10; 21:16; 22:11; 23:6; 28:13</p> <p>listed ^[1] - 37:16</p> <p>listen ^[1] - 4:7</p> <p>LISTENING ^[1] - 1:3</p> <p>listening ^[7] - 3:23; 19:22; 44:3, 5; 48:20; 50:9</p> <p>live ^[4] - 32:11; 35:10; 37:22; 48:18</p> <p>lived ^[1] - 35:12</p> <p>lives ^[1] - 41:8</p> <p>Living ^[1] - 39:13</p> <p>local ^[19] - 26:9, 15; 31:8; 44:7; 45:4, 7, 17, 22; 46:18; 47:3, 10, 17, 19-20; 48:1, 7, 16; 49:2</p> <p>localizing ^[1] - 48:12</p> <p>locations ^[1] - 15:5</p> <p>look ^[15] - 8:6; 16:18; 20:17; 21:8; 31:22; 32:5; 35:22; 42:15; 43:6, 14, 22; 44:19; 49:11, 14</p> <p>Look ^[1] - 13:18</p> <p>looked ^[3] - 6:6; 38:20; 42:19</p> <p>looking ^[3] - 19:4; 26:17; 32:2</p> <p>looks ^[2] - 20:12; 42:21</p> <p>loopholes ^[1] - 22:3</p>
I			K	
<p>lan ^[1] - 3:5</p> <p>ideas ^[1] - 24:7</p> <p>identify ^[2] - 15:4; 17:4</p> <p>identifying ^[1] - 14:10</p> <p>illustrates ^[1] - 20:6</p> <p>impact ^[2] - 46:18; 47:22</p> <p>impacts ^[2] - 43:19; 48:17</p> <p>imperative ^[1] - 28:17</p> <p>implement ^[2] - 24:12; 46:11</p> <p>implementation ^[1] - 24:12</p> <p>implemented ^[1] -</p>			<p>Kat ^[1] - 35:6</p> <p>Keep ^[1] - 27:21</p> <p>Keeper ^[1] - 28:6</p> <p>kept ^[1] - 27:14</p> <p>kids ^[1] - 35:13</p> <p>kill ^[1] - 39:20</p> <p>killed ^[1] - 40:2</p> <p>killing ^[1] - 34:22</p> <p>kind ^[5] - 15:23; 20:8; 28:13, 15; 38:22</p> <p>kinds ^[2] - 12:3; 13:5</p> <p>knowledge ^[3] - 17:16; 18:13; 50:12</p> <p>known ^[1] - 39:20</p>	
			L	
			<p>land ^[3] - 34:2, 14; 46:22</p> <p>landscape ^[1] - 5:17</p> <p>large ^[2] - 33:16; 46:14</p> <p>largely ^[1] - 31:19</p> <p>larger ^[1] - 13:20</p> <p>last ^[2] - 11:6; 29:4</p> <p>Lastly ^[2] - 18:20; 21:9</p> <p>lays ^[3] - 17:13; 29:7; 35:20</p> <p>learn ^[1] - 45:8</p> <p>learned ^[1] - 29:3</p> <p>least ^[1] - 17:20</p> <p>leave ^[1] - 7:10</p> <p>legal ^[1] - 26:4</p>	
		J		
		<p>Jack ^[1] - 3:19</p> <p>James ^[1] - 32:9</p> <p>January ^[1] - 18:1</p> <p>jersey ^[1] - 4:16</p>		

<p>lose ^[1] - 34:16</p> <p>love ^[3] - 9:12, 15; 35:21</p> <p>low ^[2] - 33:12; 35:15</p> <p>lower ^[1] - 7:5</p> <p>Lydel ^[2] - 32:9, 11</p>	<p>maximize ^[2] - 30:7; 46:18</p> <p>McGill ^[2] - 50:6, 17</p> <p>means ^[1] - 44:10</p> <p>measures ^[1] - 17:5</p> <p>mediation ^[1] - 19:17</p> <p>meet ^[2] - 26:2; 46:8</p> <p>meetings ^[7] - 9:18; 10:10, 22; 11:3; 14:3; 20:18, 22</p> <p>melt ^[1] - 41:14</p> <p>member ^[2] - 32:13; 42:5</p> <p>members ^[3] - 3:11; 10:2; 28:2</p> <p>mention ^[2] - 28:12; 42:20</p> <p>mentioned ^[2] - 21:10; 32:21</p> <p>middle ^[1] - 39:4</p> <p>might ^[8] - 11:8; 16:2; 19:7; 20:16; 43:15; 45:4; 48:14, 17</p> <p>migrate ^[3] - 38:7, 11; 39:22</p> <p>Migratory ^[1] - 39:14</p> <p>mile ^[2] - 12:22</p> <p>miles ^[1] - 33:21</p> <p>million ^[3] - 23:1; 39:16, 18</p> <p>millions ^[1] - 38:6</p> <p>Millions ^[1] - 40:22</p> <p>minimize ^[1] - 46:17</p> <p>mining ^[1] - 15:13</p> <p>minutes ^[1] - 9:7</p> <p>missed ^[1] - 37:17</p> <p>mitigate ^[1] - 48:17</p> <p>mitigation ^[1] - 47:21</p> <p>model ^[1] - 45:14</p> <p>models ^[1] - 18:22</p> <p>moment ^[1] - 3:12</p> <p>moments ^[2] - 9:23; 41:13</p> <p>Monday ^[1] - 50:10</p> <p>MONDAY ^[1] - 1:5</p> <p>month ^[2] - 26:1, 3</p> <p>moon ^[2] - 35:17; 40:17</p>	<p>most ^[4] - 19:8; 29:14; 33:11; 38:7</p> <p>motions ^[1] - 26:5</p> <p>move ^[2] - 26:6; 33:1</p> <p>moved ^[3] - 9:14; 36:22; 37:2</p> <p>moving ^[1] - 45:13</p> <p>MR ^[14] - 3:1; 4:3, 19; 9:4; 23:4, 19; 27:23; 30:16; 32:8; 35:6; 37:14; 41:23; 49:4, 6</p> <p>MS ^[1] - 7:11</p> <p>must ^[4] - 32:20; 44:1; 46:5, 14</p> <p>mysteries ^[1] - 41:18</p>	<p>39:15, 17, 22</p> <p>Ninety ^[1] - 47:23</p> <p>ninety ^[1] - 38:11</p> <p>ninety-eight ^[1] - 38:11</p> <p>Ninety-two ^[1] - 47:23</p> <p>non ^[1] - 32:13</p> <p>non-profit ^[1] - 32:13</p> <p>none ^[2] - 23:2; 40:5</p> <p>North ^[1] - 27:6</p> <p>Notary ^[1] - 50:6</p> <p>note ^[1] - 43:12</p> <p>nothing ^[1] - 5:7</p> <p>notice ^[4] - 10:10, 20; 32:20; 43:17</p> <p>notions ^[2] - 15:19, 22</p> <p>nourishment ^[1] - 15:13</p> <p>nuclear ^[2] - 33:5, 7</p> <p>number ^[5] - 11:15; 12:2; 24:16; 28:9; 31:5</p> <p>nurturing ^[1] - 41:9</p>	<p>22; 14:4, 8, 22; 15:7; 17:8, 10; 18:18; 21:11, 13; 29:8; 30:6, 11-12, 14; 31:12; 33:9; 35:14, 22; 36:14; 38:5; 40:1, 14, 23; 41:9, 21; 42:20; 43:13</p> <p>ocean's ^[1] - 41:13</p> <p>oceans ^[6] - 18:21; 22:16; 25:9, 13; 27:19; 37:5</p> <p>Oceans ^[18] - 3:7; 9:8; 10:5, 15; 11:22; 13:7, 21-22; 14:12, 15; 15:2, 16; 16:3, 21; 17:1; 18:5; 27:3</p> <p>October ^[1] - 50:10</p> <p>OCTOBER ^[1] - 1:5</p> <p>offer ^[3] - 11:18; 21:15; 43:11</p> <p>offering ^[1] - 45:22</p> <p>office ^[2] - 9:19; 47:9</p> <p>officials ^[3] - 47:5, 9, 19</p> <p>offs ^[1] - 44:8</p> <p>offshore ^[6] - 27:16; 29:18; 42:13; 45:17; 47:16; 48:2</p> <p>oil ^[1] - 35:1</p> <p>okayed ^[1] - 23:14</p> <p>old ^[1] - 23:20</p> <p>once ^[1] - 26:1</p> <p>Once ^[1] - 19:10</p> <p>one ^[13] - 6:19; 11:7; 22:3; 24:14; 25:3, 16; 31:10; 38:4; 39:14, 17; 41:1; 46:8</p> <p>One ^[1] - 27:12</p> <p>ones ^[1] - 29:14</p> <p>ongoing ^[1] - 46:20</p> <p>open ^[2] - 13:14; 27:9</p> <p>Opening ^[1] - 2:3</p> <p>opening ^[2] - 41:5, 15</p> <p>OPENING ^[1] - 3:1</p> <p>operational ^[1] - 25:5</p> <p>opinion ^[2] - 6:12; 36:7</p> <p>opinions ^[1] - 46:4</p> <p>opponents ^[1] - 46:13</p> <p>opportunities ^[2] -</p>
M				
<p>MA ^[1] - 1:8</p> <p>magic ^[1] - 40:16</p> <p>mail ^[1] - 10:8</p> <p>main ^[1] - 24:9</p> <p>Maine ^[3] - 22:14; 23:11, 15</p> <p>maintains ^[1] - 30:2</p> <p>major ^[2] - 38:2; 41:2</p> <p>manage ^[1] - 23:16</p> <p>managed ^[1] - 42:18</p> <p>management ^[16] - 7:16; 8:22; 14:19; 16:9, 11; 17:5, 17; 23:23; 24:2, 10, 18; 27:2; 29:13; 30:1; 42:21; 43:13</p> <p>Management ^[3] - 3:7; 27:4; 43:7</p> <p>managing ^[1] - 22:16</p> <p>map ^[3] - 10:16; 30:10, 21</p> <p>maps ^[2] - 13:9; 20:4</p> <p>Marine ^[1] - 16:6</p> <p>Martha ^[1] - 37:21</p> <p>Martha's ^[1] - 31:17</p> <p>Mass ^[2] - 3:19; 21:23</p> <p>MASSACHUSET</p> <p>TS ^[1] - 1:1</p> <p>Massachusetts ^[9] - 19:9; 25:20; 26:7; 30:6; 33:8; 34:10; 42:9; 50:7, 9</p> <p>Massachusetts' ^[1] - 25:21</p> <p>massive ^[1] - 33:3</p> <p>master ^[1] - 27:1</p> <p>material ^[1] - 27:18</p> <p>materials ^[5] - 18:2; 19:10; 20:2; 27:14; 49:12</p> <p>mating ^[1] - 40:20</p>	<p style="text-align: center;">N</p> <p>name ^[4] - 3:5; 28:3; 32:10; 37:21</p> <p>named ^[2] - 46:5, 14</p> <p>names ^[1] - 37:15</p> <p>Nantucket ^[7] - 22:10; 28:5, 8; 30:11; 33:22; 40:7</p> <p>nation ^[1] - 7:16</p> <p>natural ^[2] - 29:20; 30:1</p> <p>near ^[3] - 7:17, 19; 26:22</p> <p>nearby ^[1] - 41:22</p> <p>need ^[23] - 6:7; 12:10; 13:12, 21; 14:7; 16:16; 18:11; 19:16; 26:18; 27:12, 22; 32:23; 37:6, 8; 38:20; 40:9; 44:11, 14, 18; 45:2, 6; 46:14</p> <p>needed ^[4] - 4:10; 27:15; 36:23</p> <p>needs ^[8] - 5:22; 31:8; 38:19; 41:19; 42:18; 46:9; 49:2</p> <p>never ^[2] - 36:6; 39:3</p> <p>New ^[3] - 23:15; 24:18; 27:13</p> <p>new ^[2] - 12:16; 45:9</p> <p>next ^[5] - 16:21, 23; 23:12; 28:10; 32:6</p> <p>Nickerson ^[2] - 28:1, 3</p> <p>night ^[5] - 38:12, 20;</p>	<p style="text-align: center;">O</p> <p>O'Leary ^[5] - 3:15; 4:10, 14; 7:15; 30:20</p> <p>O'LEARY ^[1] - 4:19</p> <p>objective ^[1] - 34:7</p> <p>objectives ^[6] - 10:4; 13:14; 30:2; 31:20; 49:1</p> <p>obviously ^[5] - 18:19; 22:15; 23:8, 13; 34:6</p> <p>Obviously ^[1] - 21:23</p> <p>occur ^[3] - 24:4; 45:4; 48:14</p> <p>occurred ^[1] - 11:4</p> <p>Ocean ^[18] - 3:11, 18, 21; 9:20; 10:1, 3; 11:14; 14:17, 20; 15:9, 11, 15; 19:6; 41:1; 42:15; 43:7; 50:10</p> <p>OCEAN ^[1] - 1:1</p> <p>ocean ^[41] - 5:16; 7:7, 16; 8:21; 11:12; 12:1, 13, 21; 13:10,</p>		

<p>47:20; 48:1 opportunity [4] - 15:3; 42:17, 19, 22 opposition [1] - 45:18 options [1] - 44:8 order [1] - 30:7 organization [1] - 32:14 organizations [3] - 22:4; 23:6; 24:23 organize [1] - 13:10 organized [1] - 14:6 osprey [1] - 40:19 outcomes [2] - 43:8; 44:9 output [3] - 33:18; 34:1 outside [2] - 23:7; 45:15 overall [3] - 12:11; 24:12; 25:13 overlap [1] - 12:5 overlay [2] - 12:17; 19:12 overseeing [1] - 22:4 oversight [1] - 25:4 overview [1] - 10:14 own [1] - 31:13 owned [2] - 28:18; 29:8 ownership [1] - 48:2</p>	<p>particularly [4] - 15:20; 29:19; 32:1; 33:9 partnership [1] - 45:7 pass [1] - 3:8 passed [3] - 14:14; 35:23; 43:5 past [1] - 24:2 pathways [1] - 45:13 Patrick [1] - 14:15 Patriots [2] - 4:15 peace [1] - 41:7 Peake [2] - 3:13; 7:3 PEAKE [1] - 7:11 people [8] - 5:7; 7:2; 18:15; 25:5; 33:1; 37:7; 39:18; 40:4 People [1] - 38:15 perceived [1] - 15:8 percent [6] - 38:11; 46:8; 47:13, 18, 23; 48:6 performance [1] - 15:5 performing [1] - 26:10 period [1] - 38:21 permit [2] - 13:17 permits [4] - 12:14, 17, 20; 25:2 permitted [1] - 15:15 person [1] - 25:4 personal [1] - 16:4 perspective [4] - 8:13; 13:18; 14:5; 32:16 phase [1] - 18:20 phenomenal [1] - 34:13 pick [2] - 35:15 picked [1] - 11:6 pieces [2] - 16:18; 43:5 piers [1] - 13:3 pipelines [1] - 15:12 place [4] - 12:7; 33:3; 34:3; 36:4 places [6] - 12:9; 19:1; 29:21; 34:11</p>	<p>plan [38] - 6:18; 8:14, 22; 11:23; 12:11, 13, 16, 19; 13:1; 14:19; 15:8; 16:22; 17:2, 11, 17, 20, 22; 18:7, 10; 20:23; 21:12; 23:23; 24:11-13; 27:2; 28:11, 18; 30:2; 32:1; 36:17; 37:13; 43:13; 46:6; 47:4; 49:10 Plan [16] - 2:5; 9:20; 10:3; 11:14, 22-23; 13:7, 21; 14:12, 20; 15:2, 17; 16:21; 17:1; 42:15 plan's [1] - 17:3 planned [1] - 13:14 Planning [1] - 50:10 planning [20] - 6:7, 11; 9:9; 10:16; 11:16; 12:22; 13:20; 17:14; 18:6, 22; 21:5, 13; 24:1, 3; 28:14; 31:9; 43:9; 45:21; 46:3 PLANNING [1] - 1:1 plans [6] - 16:9; 20:19; 27:1; 30:5; 31:19, 23 plant [1] - 33:5 play [2] - 17:8; 22:5 playing [2] - 5:16; 8:8 plays [1] - 35:19 point [5] - 31:1, 15; 35:4; 46:15; 48:22 points [1] - 42:20 policy [4] - 8:23; 31:19, 23; 49:1 Popallardo [1] - 3:16 position [1] - 29:9 positive [1] - 27:20 possibility [1] - 33:5 possible [1] - 23:6 potential [5] - 16:14; 19:13; 42:12; 43:12 Power [1] - 32:12 power [3] - 33:12; 34:6; 48:9 Powers [1] - 37:21 preconceived [1] - 15:19</p>	<p>preferential [1] - 47:19 prepare [2] - 37:23; 40:11 prepared [1] - 35:9 Presentation [1] - 2:5 PRESENTATION [1] - 9:4 presentation [3] - 9:8; 11:20; 36:12 presidential [1] - 32:18 pressures [1] - 5:16 presume [1] - 47:10 pretty [4] - 5:13; 26:22; 33:11; 38:9 prevent [1] - 33:2 primary [5] - 15:7; 19:23; 31:2; 33:11; 42:20 principal [1] - 5:15 principals [1] - 18:6 principles [1] - 28:14 priorities [1] - 14:21 private [2] - 18:15; 48:3 privatized [1] - 28:19 problem [2] - 22:16; 36:15 problems [3] - 32:17; 34:8; 42:16 process [27] - 6:7; 9:9; 10:16; 11:16; 19:3, 17; 21:5, 13; 22:18; 29:1, 6, 11; 31:9; 35:2; 36:4; 37:8; 42:21, 23; 43:9, 12, 21; 44:1, 9; 46:3; 47:12; 48:13; 49:11 processes [1] - 29:12 product [2] - 5:10; 16:20 products [1] - 10:11 profit [1] - 32:13 program [8] - 24:17; 25:8-11, 18; 26:13; 28:7 programs [4] - 24:14; 25:5, 16, 22</p>	<p>project [11] - 8:17; 13:17; 26:12; 38:2; 43:18; 44:19; 46:5, 13; 47:15 projects [10] - 27:10, 12; 29:18, 21; 31:4; 45:17, 22; 47:17; 48:2, 14 promulgate [1] - 17:1 proper [1] - 14:22 properly [1] - 6:5 proponents [1] - 46:13 proportional [1] - 33:19 proposed [2] - 12:7 prospective [1] - 6:9 Protect [1] - 28:5 protect [7] - 13:13; 14:7; 20:14; 29:20; 33:1; 40:9; 42:9 protected [1] - 41:20 protecting [1] - 14:11 protection [10] - 12:1, 12; 15:9; 16:15; 17:4, 9; 25:18; 26:21; 28:8; 30:7 proud [1] - 4:11 provided [1] - 15:16 provides [1] - 41:9 providing [3] - 26:13; 32:5; 41:3 Provincetown [3] - 3:14; 8:6; 27:7 Public [1] - 50:6 public [30] - 3:23; 5:20; 6:1, 5; 9:18, 22; 10:15, 22; 13:23; 14:3, 23; 16:22; 18:4, 19; 19:22; 20:21; 21:2; 24:3; 28:16, 20; 29:8; 37:12; 45:11; 48:2; 50:9 publicly [2] - 28:18; 29:8 purpose [2] - 15:8; 19:23 put [6] - 4:8; 13:15; 20:2, 23; 36:18; 39:4</p>
P				
<p>p.m. [3] - 1:10; 49:17 page [3] - 11:1; 21:7; 49:12 PAGE [1] - 2:2 pain [1] - 41:7 paragraphs [1] - 40:12 part [5] - 18:20; 19:18; 25:11; 37:8; 47:5 participant [2] - 42:7; 45:23 participation [3] - 9:22; 10:15; 21:9 particular [2] - 11:11; 47:12</p>				

<p>puts [2] - 8:22; 29:8 putting [2] - 23:14; 25:15</p>	<p>24:13; 25:7 reconcile [1] - 12:10 recreational [2] - 16:4; 26:20</p>	<p>Resource [1] - 25:19 resources [12] - 12:4; 15:4; 19:14; 21:7; 23:10; 28:18; 29:20; 30:8; 42:6, 22</p>	<p>scales [1] - 44:20 schedule [1] - 16:20 science [3] - 14:18; 18:10; 26:15</p>	<p>shall [1] - 16:5 share [2] - 11:9; 28:10 sheet [1] - 10:6 shells [1] - 35:17</p>
Q	<p>reflect [2] - 30:21; 31:19</p>	<p>responded [1] - 48:7</p>	<p>sea [2] - 8:7; 34:23 seaward [1] - 12:23</p>	<p>Shoals [5] - 33:22; 34:5, 9; 40:4, 7 Shore [2] - 27:6</p>
<p>quantify [1] - 44:14 questions [2] - 17:9; 21:14 quickly [1] - 5:18 quite [2] - 24:8; 28:9</p>	<p>reflected [1] - 11:14 region [4] - 31:12, 20; 44:6; 48:9 region's [1] - 46:9 regional [3] - 31:18, 23; 46:6 regulations [3] - 4:7; 16:9, 12 regulatory [2] - 12:16; 39:7 release [1] - 42:11 relevance [1] - 47:12 rely [1] - 44:10 Remarks [1] - 2:3 remarks [3] - 9:3; 37:23; 40:11 REMARKS [1] - 3:1 renewable [15] - 14:9; 15:12; 31:4; 32:15, 17; 33:10; 34:20; 35:3; 42:6, 13, 15, 21; 46:8, 23; 47:16 Renewable [4] - 15:14; 42:8; 43:2; 46:1 renewed [1] - 17:20 report [1] - 25:5 represent [1] - 47:10 Representative [4] - 3:13; 4:1; 9:5 representative [3] - 3:18, 20; 7:4 representatives [1] - 18:17 representing [1] - 28:6 requires [2] - 17:19 research [2] - 30:17; 48:5 resolve [2] - 6:3, 8 resource [14] - 12:4; 13:23; 24:2; 25:12; 26:11, 21; 27:1, 17; 30:1; 42:14; 43:11, 22; 44:12; 45:3</p>	<p>respondents [1] - 47:14 responsibility [1] - 16:8 rest [1] - 40:22 Reverse [1] - 29:11 review [2] - 19:7; 21:1 reviewing [2] - 18:4, 21 reviews [1] - 17:20 rewards [1] - 43:12 Rhode [2] - 23:12; 36:12 rich [1] - 40:21 richness [1] - 41:17 rightfully [1] - 29:10 River [1] - 22:9 Rob [3] - 3:15; 4:9, 14 room [2] - 5:1; 7:18 rooted [1] - 5:14 roots [1] - 8:21 rule [2] - 39:2, 7 running [1] - 7:1</p>	<p>Second [1] - 43:9 Secondly [1] - 28:22 Secretary [2] - 3:4, 6 secretary [2] - 3:8; 14:16 sector [2] - 18:16; 48:3 see [6] - 11:4; 19:7, 13; 22:11; 30:20; 38:16 seeing [3] - 19:4; 36:1, 3 seeks [1] - 6:1 seem [1] - 37:4 self [1] - 28:15 self-evident [1] - 28:15 Senate [1] - 5:11 Senator [4] - 3:15; 7:14; 17:3; 30:20 senator [1] - 13:16 send [1] - 10:9 sense [1] - 19:5 senses [1] - 41:16 sentence [1] - 39:10 series [2] - 9:18; 20:17 serious [2] - 34:7; 35:3 serve [1] - 26:9 servicing [1] - 24:18 SESSION [1] - 1:3 session [4] - 3:23; 19:22; 44:3; 50:9 sessions [2] - 48:21 set [2] - 10:4; 14:20 sets [1] - 19:12 seven [2] - 29:4; 47:13 Seventy [1] - 47:18 Seventy-five [1] - 47:18 several [4] - 3:11; 24:13, 22; 32:6</p>	<p>shore [5] - 34:11; 44:12, 16; 46:15, 23 shoreline [1] - 40:17 short [3] - 14:19; 18:10; 26:22 shortfalls [1] - 15:9 show [1] - 40:17 showed [1] - 39:16 side [2] - 4:23; 5:11 sidelines [1] - 40:18 sign [2] - 9:10; 10:6 sign-in [2] - 9:10; 10:6 signed [6] - 9:14, 16; 10:7; 14:15; 37:18; 49:7 significant [2] - 15:4; 33:7 similar [1] - 25:21 simple [3] - 5:13, 15; 9:6 simply [1] - 6:1 Simpson [1] - 23:20 sit [2] - 19:5; 21:16 site [2] - 29:21; 34:14 sited [1] - 38:22 sites [1] - 44:19 siting [5] - 14:21; 29:18; 39:3; 45:16; 47:16 sitting [1] - 5:2 six [1] - 25:21 Sixty [1] - 47:13 Sixty-seven [1] - 47:13 size [3] - 31:10; 33:17; 45:16 sizing [1] - 47:16 skill [1] - 50:12 sky [1] - 39:19 slides [1] - 11:7 small [2] - 33:16</p>
R		S		
<p>rabbits [1] - 35:20 race [1] - 32:18 radar [1] - 39:16 range [1] - 16:14 rather [1] - 5:18 rationality [1] - 13:10 raw [3] - 18:2; 19:10; 20:2 reach [1] - 10:12 reaching [1] - 11:17 read [2] - 39:10; 40:12 reading [1] - 21:18 realize [2] - 22:3; 42:11 really [26] - 5:10, 14, 23; 6:13; 7:15; 8:8; 20:6, 21; 22:17; 28:17; 30:19; 31:7, 10, 22; 35:9; 37:12, 23; 40:9, 11; 42:14, 18; 43:7, 14, 22; 45:14; 48:12 reasonable [1] - 34:15 receive [5] - 32:20; 47:19, 21; 48:1, 8 receiving [1] - 18:3 recently [1] - 39:11 recognize [1] - 27:11 recognized [1] - 14:5 recognizes [2] - 13:22; 17:18 recognizing [1] - 17:6 recommend [2] -</p>		<p>safeguard [1] - 28:23 sanctuaries [2] - 15:7; 25:10 Sanctuaries [3] - 15:10, 15 sanctuary [6] - 30:6, 12, 14; 31:13 sand [2] - 15:12; 27:15 sands [1] - 27:18 Sarah [4] - 3:13; 7:3, 7 savings [1] - 24:11 saw [1] - 36:1 scale [9] - 15:17, 23; 16:2; 31:3, 11, 14; 32:2; 46:14</p>		

<p>smaller [2] - 33:16 snails [1] - 35:17 social [4] - 13:8, 13; 18:9; 31:21 sole [1] - 16:7 solution [1] - 42:16 Solutions [1] - 43:3 solve [1] - 34:7 someone [1] - 42:1 Sometimes [3] - 7:23; 8:1; 12:4 sometimes [1] - 25:3 somewhere [2] - 5:2; 46:15 son [2] - 4:15; 49:5 song [2] - 39:16, 18 sorely [1] - 4:10 sort [3] - 6:2; 7:6; 8:16 soul [1] - 41:15 souls [2] - 41:3 sound [2] - 8:12 Sound [6] - 22:10; 28:5, 8; 30:11; 33:22 sources [1] - 12:8 south [1] - 39:17 South [1] - 27:6 space [2] - 5:20; 13:11 speaking [2] - 24:20; 42:4 special [2] - 14:11; 19:14 species [1] - 38:19 specific [4] - 29:7; 30:5; 45:23; 48:15 specifically [2] - 14:8; 32:21 spend [1] - 9:7 spills [1] - 35:1 split [1] - 30:13 stable [1] - 48:8 stage [1] - 18:3 stages [1] - 44:21 stakeholders [2] - 19:21; 45:7 standard [1] - 29:23 standards [2] - 15:5; 17:17 start [8] - 11:19, 21;</p>	<p>19:3, 11; 20:3; 21:16; 29:13; 44:4 started [1] - 10:21 starting [3] - 19:11; 35:3; 48:22 state [19] - 6:18; 7:4; 8:4; 12:13, 19; 13:1; 18:16; 22:23; 23:7, 12; 24:8; 25:1, 18; 43:13, 19, 21; 44:3; 45:16 State [2] - 7:21; 50:7 state's [2] - 24:17; 25:8 States [2] - 19:2; 34:12 states [1] - 29:17 statewide [1] - 9:19 stay [1] - 49:13 step [5] - 6:12; 9:20; 17:23; 20:20, 23 steps [1] - 17:23 stewardship [2] - 4:9; 14:22 stocks [1] - 22:8 straighten [1] - 30:22 strategy [1] - 46:21 strongly [2] - 30:4; 35:10 studied [1] - 39:21 studies [4] - 38:9, 12, 20; 40:8 study [1] - 17:14 stuff [1] - 23:10 stunning [1] - 39:12 subject [1] - 16:5 submit [1] - 10:18 subsequent [3] - 17:14 successful [1] - 29:14 Sue [2] - 28:1, 3 suggest [2] - 28:22; 31:10 suggested [1] - 11:8 suggesting [1] - 6:6 suggestions [2] - 28:9; 31:5 suitable [2] - 17:4 summarizing [1] -</p>	<p>47:7 summary [1] - 32:22 summer [1] - 16:21 supply [1] - 48:9 support [11] - 4:12; 5:8; 23:23; 24:18; 26:9, 16; 27:20; 29:22; 30:4; 45:22; 48:14 supporter [1] - 8:18 surface [3] - 8:7; 40:21; 41:17 survey [2] - 47:5, 8 surveys [1] - 40:6 sustainable [1] - 15:2 Syndrome [1] - 29:1</p>	<p>thumb [2] - 39:2, 7 tickets [1] - 4:17 tidal [1] - 44:18 tide [1] - 35:15 timelines [1] - 44:20 tiny [1] - 40:19 together [7] - 8:10; 13:16; 20:3; 25:17, 22; 45:12 Together [1] - 46:5 tomorrow [1] - 30:17 tonight [12] - 3:3; 4:5; 6:13, 23; 7:13; 9:2; 28:5; 30:10; 35:9; 38:1; 42:4; 48:20 tonight's [1] - 4:17 took [3] - 27:16; 36:17, 19 top [1] - 28:13 totally [1] - 36:5 touch [2] - 10:9; 49:13 toward [1] - 48:10 towards [3] - 28:11; 43:13; 47:1 town [2] - 24:19, 21 towns [1] - 23:9 trade [3] - 20:12, 16; 44:8 tranquil [1] - 8:7 transcript [1] - 50:8 transitional [1] - 44:17 transparent [1] - 44:2 travel [1] - 7:22 tremendous [1] - 37:5 trip [1] - 21:4 true [2] - 33:14; 50:11 truly [2] - 23:22; 44:1 trust [3] - 5:21; 14:23; 28:20 try [3] - 6:3, 8; 24:5 turbine [1] - 33:15 turbines [7] - 33:14; 34:15; 36:18; 38:22; 39:3, 9, 19 twelfth [1] - 9:17 Twelve [1] - 39:17</p>	<p>twelve [2] - 18:23; 39:16 twenty [1] - 33:21 twice [1] - 33:23 two [8] - 17:1; 31:6; 32:3; 33:23; 38:2; 47:23 tying [1] - 26:14 type [2] - 29:16, 23 types [1] - 22:11 typical [2] - 34:2, 9</p>
U				
<p>ultimately [1] - 6:18 under [9] - 4:9; 15:7, 9, 11, 15; 24:14; 25:16, 22; 40:21 unfortunate [1] - 4:21 unique [1] - 30:7 unit [3] - 33:18; 34:2 United [2] - 19:2; 34:11 University [1] - 26:7 unless [1] - 8:13 up [22] - 4:14; 8:15, 21; 9:11, 14, 16; 11:1, 6, 8; 25:12; 27:21; 31:6; 32:18; 35:13, 16; 36:2; 37:18; 39:8; 49:7 users [1] - 18:18 uses [12] - 5:19; 12:3, 5-6; 13:11; 14:6, 11; 15:2, 6; 16:5, 14; 19:15 utility [1] - 19:8</p>				
V				
<p>values [1] - 31:22 variety [2] - 7:22; 8:8 various [1] - 26:5 vastness [1] - 41:6 velocity [2] - 33:20 video [1] - 10:20 videotaping [1] - 10:22 view [1] - 48:21 village [1] - 42:3 Vineyard [1] - 31:18</p>				

<p>violated ^[1] - 36:5 Virginia ^[3] - 25:19, 23 vision ^[1] - 6:9 vote ^[1] - 26:12</p>	<p>winter ^[1] - 21:3 wish ^[1] - 49:8 wonderful ^[1] - 35:18 words ^[3] - 4:1; 41:11; 49:8 works ^[1] - 26:13 world ^[8] - 15:22; 16:19; 18:22; 19:1, 19; 20:18; 38:16; 40:21 worthy ^[1] - 16:15 wraps ^[1] - 11:8 written ^[1] - 10:18 wrote ^[1] - 40:13</p>
W	Y
<p>waiting ^[1] - 44:22 walks ^[1] - 35:18 wall ^[1] - 20:4 wants ^[1] - 49:1 Warming ^[1] - 43:3 watching ^[1] - 23:13 water ^[9] - 12:18; 13:2, 5; 22:15; 27:10; 35:13; 40:18; 44:17 waters ^[17] - 6:18; 8:3, 5; 12:2, 13; 13:1; 14:22; 22:6; 23:15; 26:22; 41:22; 43:10, 15, 19, 21; 45:17; 47:17 Watershed ^[2] - 22:14; 23:11 waterways ^[7] - 23:20; 24:4, 17, 19; 25:8, 18 wave ^[1] - 44:18 ways ^[4] - 5:14; 7:22; 20:9; 36:19 web ^[3] - 10:23; 21:6; 49:12 weeks ^[2] - 28:10; 32:6 welcome ^[2] - 4:2; 37:14 well-being ^[1] - 45:5 west ^[1] - 34:13 West ^[1] - 37:22 whole ^[3] - 19:1; 34:12; 42:16 wife ^[1] - 32:11 Wind ^[8] - 8:16; 29:1; 35:12; 36:5; 38:1; 39:13; 46:3 wind ^[8] - 29:18; 33:13, 15; 34:15; 36:11; 38:22; 39:8; 44:17 windmill ^[1] - 23:14 winds ^[1] - 39:3</p>	<p>Yarmouth ^[1] - 37:22 Yarmouthport ^[1] - 32:11 year ^[4] - 16:23; 38:21; 43:6; 46:9 years ^[6] - 17:21; 24:16; 29:4; 38:2; 39:15; 47:6 yellow ^[1] - 30:14 yourself ^[1] - 41:14</p>
Z	
	<p>Zone ^[1] - 3:7</p>