1	STATE OF NEW JERSEY
2	DEPARTMENT OF ENVIRONMENTAL PROTECTION
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4	NEW JERSEY CLEAN WATER COUNCIL :
5	A RESILIENT NEW JERSEY - ADAPTING:
6	WATER INFRASTRUCTURE TO THE :
7	"NEW NORMAL" :
8	x
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10	Location: Department of Environmental Protection
11	401 East State Street
12	Trenton, New Jersey
13	Dated: Tuesday, April 9, 2013
14	Commencing at 9:00 a.m.
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19	GUY J. RENZI & ASSOCIATES
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1	THOSE IN ATTENDANCE:
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3	PAMELA GOODWIN, ESQ NJCWC CHAIRWOMAN
4	BOB MARTIN - NJDEP Commissioner
5	MICHELE SIEKERKA - NJDEP Assistant Commissioner
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1	CHAIRWOMAN GOODWIN: Good morning ladies
2	and gentlemen and welcome. My name is Pamela
3	Goodwin and I am a partner at the law firm of
4	Saul Ewing. I am also a citizen member of the New
5	Jersey Clean Water Council and I serve as Chair
6	of the Council.
7	The Clean Water Council of New
8	Jersey was established by Statute in 1967 which
9	means that the Council has been in existence now
10	for 46 years.
11	The Council's charge is to serve as
12	an uncompensated advisory board to the New Jersey
13	Department of Environmental Protection.
14	Our mission is to improve the
15	State's Program for controlling water pollution.
16	We are made up of 17 members representing a broad
17	spectrum of state interests.
18	I will introduce you to each of our
19	members after we have had the opportunity to hear
20	from the Commissioner, and Assistant Commissioner
21	Siekerka. We are required to hold annual public

22 hearings on topics of our choosing which

23	facilitate our ability to advise the
24	Commissioner.
25	Normally these hearings are held in

1	late fall, but in today's circumstances you can
2	see we have chosen a beautiful day in spring.
3	Normally, this is when we would be reporting back
4	to the Commissioner. Why then are we here today?
5	Because in 2012, at the request of Commissioner
6	Martin and his staff, who were then very much
7	engaged in responding to the aftermath of
8	Hurricane Sandy, the Council determined that it
9	would defer its public hearing until now.
10	The purpose of the deferral was to
11	allow the Department to fully focus on the task
12	at hand, as well as to provide a forum for the
13	Department and the public to later sort through
14	the environmental and economic implications of
15	this storm, including the availability of Federal
16	funds for controlling water pollution and
17	protecting water quality in the future.
18	We have entitled today's hearing a
19	Resilient New Jersey Adapting Water
20	Infrastructure to the New Normal. By this we are

- 21 hoping to gather testimony that builds upon the
- 22 records developed by this Council in public
- 23 hearings over the past four years relating to
- 24 climate change, water infrastructure
- 25 deterioration, and financing options for water

- 1 infrastructure improvement.
- 2 There are many of us who do not
- 3 believe that the impact that Hurricane Sandy had
- 4 on our water supply systems was an aberation,
- 5 but rather a harbinger of what the future may
- 6 hold if we do not use this opportunity to assess,
- 7 adapt and rebuild for the future, not the past.
- 8 Commissioner Martin and many of the
- 9 members of his staff have been working around the
- 10 clock in the months immediately following
- 11 Hurricane Sandy restoring the State to normalcy.
- 12 And even now, six months later, in the midst of
- 13 determining what "normalcy" means, this remains
- 14 the number one agenda item for the Department and
- 15 its leadership. With that as an introduction, it
- 16 is my great privilege and pleasure to introduce
- 17 you to the Commissioner of the State of New
- 18 Jersey, Department of Environmental Protection,
- 19 Bob Martin, who will set the stage for where the

- 20 Department is headed on these very important
- 21 issues. Thank you commissioner Martin.
- 22 COMMISSIONER MARTIN: Good morning.
- 23 How is everybody? Thank you Pam. Pam summarized
- 24 it extremely well. Our focus has been very much
- 25 on post Sandy, both recovery and rebuilding, and

- 1 again, on behalf of the Governor, I welcome all
- 2 of you today and I welcome the work that's done
- 3 with the Council, focusing on water quality
- 4 issues overall in the state and to focus on those
- 5 is a priority as we move forward here.
- 6 I want to thank both the New Jersey
- 7 Clean Water Council and the Water Supply Advisory
- 8 Council for your service to the state.
- 9 I appreciate you guys rescheduling
- 10 this event from Sandy from post Sandy, we were
- 11 buried. We still continue to be buried, our
- 12 focus of this organization has shifted almost
- 13 entirely on issues around Sandy. The rebuilding
- 14 of this state, the recovery of this state is just
- 15 a massive effort. You have heard the Governor out
- 16 there talking about a constant basis, and there's
- 17 reason for that, we still have a lot of work to

- 18 to be done and I am going to summarize the damage
- 19 and our focus going forward.
- You know one of the things that we
- 21 have seen, you know, in all of this is that our
- 22 aging infrastructure in the state, our water
- 23 infrastructure both has lacked, both historic --
- 24 over historically adequate investments in that
- 25 infrastructure. That infrastructure during the

- 1 storm. And after the storm, has indicated the
- 2 vulnerabilities we have in this state, both the
- 3 water supply and the wastewater treatment aspects
- 4 of infrastructure in the state. It also
- 5 demonstrated our storm water system
- 6 vulnerabilities in our communities. So we have a
- 7 lot of focus -- we have a lot of work to do, we
- 8 have a lot of focus of this organization around
- 9 those key topics. And that's where the work of
- 10 Michele Siekerka and her team are going to be
- 11 over the next two years, very heavily how we
- shape around both vulnerabilities and how we
- 13 focus.
- 14 So when we start talking about how
- 15 do we tackle this problem, we are clearly going
- 16 to be talking about vulnerabilities. We are

- 17 going to be talking about long term. How do we
- 18 create resiliency for the infrastructure of this
- 19 state? It is an important part of our planning
- and our efforts overall making this happen.
- Our approach also has to be on a
- 22 holistic approach. We can't just focus on one
- 23 piece of the problem. We have to look at all the
- 24 pieces. You've heard me talk about that since day
- 25 one; both a holistic approach, asset management,

- 1 long term capital investments and the
- 2 infrastructure. You are always going to hear me
- 3 talk about that. That's again, prior experience
- 4 and prior acknowledge that I have about
- 5 infrastructure. I believe that those things
- 6 require both the investment and the focus as
- 7 public policy, long term.
- 8 Let me first turn to super storm
- 9 Sandy and the impact it had to the state.
- 10 Obviously, massive devastation to the state
- 11 overall. Again, we continue to focus on fixing
- 12 those problems and resiliency of all
- 13 infrastructure across the state. While today we
- 14 are talking about resiliency of infrastructure

- 15 around water, I mean everything from roads to
- 16 homes to businesses, to buildings, to public
- 17 safety organizations and infrastructure across
- 18 the state is extremely important.
- More than 346 thousand homes were
- 20 damaged from this storm. You know, things like
- 21 even 58 homes washed from, you know, Mantoloking
- 22 into Barnegat Bay, just staggering, that thought
- 23 of those kinds of things happening. Thousands of
- 24 families have been displaced. Over 1400 boats
- 25 were either abandoned or were sunken in a lot of

- 1 places across the entire state.
- 2 All of you saw the pictures; boats
- 3 sitting in the middle of roads, sitting on
- 4 railroad tracks, sitting in people's yards,
- 5 sitting on people's decks. All the rest of it.
- 6 The entire coastline of beaches experienced
- 7 significant erosion.
- 8 So again, major problems along the
- 9 coast. Nearly 100 wastewater treatment facilities
- around the state were damaged and more than 400
- 11 water supply systems had challenges; community
- 12 water systems had challenges in the state. While
- 13 the vast majority of those were power related it

- 14 still created havoc for us trying to manage
- 15 through those problems at the time of the storm
- 16 and shortly after.
- 17 The damage for all water
- 18 infrastructure exceeds 2.6 billion dollars. A
- 19 staggering number of just one portion of the
- 20 problem of the state has challenges on rebuilding
- 21 the state going forward.
- Before I go a little bit further on
- 23 some of the issues around it, I want to talk
- 24 about some of the steps we took kind of before,
- 25 during and after the storm.

- 1 Before the storm we focused on a
- 2 whole host of things; updating emergency contact
- 3 lists for internal and external communications,
- 4 testing remote access and communication systems
- 5 to ensure they are on good working order. Placing
- 6 operating emergency response personnel on call
- 7 and review emergency procedures; both on the
- 8 state and the water providers and wastewater
- 9 treatment plants. Ensuring that all supplies
- 10 including water treatment chemicals fuel were
- 11 stocked and secured to maximum extent as possible

- 12 for all these facilities.
- We also asked all these facilities
- 14 to test our auxiliary power sources and
- 15 generators to ensure that they were working
- 16 properly. You know, even with all that we still
- 17 had power issues that were unprecedented.
- 18 Again, one of the things we
- 19 realized, at the time was that while a lot of
- 20 these facilities had generators, we also expected
- 21 that most facilities would come back on the grid
- 22 within a few days. What we found out was a lot of
- 23 them supply of fuel in lot of cases was three
- 24 days, five days or seven days. Guess what? A lot
- of those facilities weren't back up in, with

- 1 external power from the grid so we had to get
- 2 into a panic mode of having to move diesel fuels
- 3 and other fuels around the state to help the
- 4 facilities keep them up and running
- 5 We reached out right after the
- 6 storm to 369 of the state wastewater treatment
- 7 facilities to determine their impact that they
- 8 had had and offer of assistance. We also sent out
- 9 teams out to multiple facilities either because
- 10 we didn't get a response back from them, which we

1	l re	alized	l they	had	wasl	hed	out	comp	lete	ly	or	that

- 12 they would try to fight fires within their own
- 13 organization, trying to keep the facilities up
- 14 and running. So we sent teams out there to help
- 15 support them and help back them up during or
- 16 shortly after the storm.
- What we realize that there were 94
- 18 wastewater treatment plants in 21 counties that
- 19 had impacts because of the storm. Impacts
- 20 included inadequate treatment, the need for fuel
- 21 or generators due to power shortages and broken
- 22 sewer mains or other operational issues. In many
- 23 instances, impacts extended beyond the treatment
- 24 facility to pump stations and wastewater
- 25 collection systems.

- 1 Our most significant impacts were
- 2 Passaic Valley Treatment Sewer Commission
- 3 Authority and Middlesex County Utility
- 4 Authorities, Sayreville Pump Station.
- 5 I visited both those facilities in
- 6 the short hours after that, after the storm
- 7 realizing that both facilities had been
- 8 completely flooded out. PVSC's operations pretty

9	much	had	been	wiped	out inc	luding	most of	their
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- 10 buildings had been flooded, more importantly or
- 11 more damagingly was the facilities themselves had
- 12 been completely flooded out which basically
- 13 stopped all operation.
- 14 PVSC serves over 1.4 million people
- and manages sludge for more than 100 in state and
- 16 out of state wastewater treatment facilities
- 17 The impact resulted in release of
- 18 over hundreds of millions of gallons a day of raw
- 19 sewerage, both Passaic River and the Raritan
- 20 River and some of the other rivers all around
- 21 that area. So again, the devastation was
- 22 significant at that point in time.
- Our challenges were to try to make
- 24 sure that if that sewerage, besides the damage it
- 25 was causing to the rivers and ecosystem. That

- 1 those were not backing up into homes and systems
- 2 in so many communities. So our challenges were
- 3 staggering at the time trying to work with those
- 4 facilities to make that happen. What you saw was
- 5 a very collaborative effort overall; between
- 6 those facilities, the State, EPA, Army Corp of
- 7 Engineers, everyone jumped in, FEMA. We all

- 8 jumped in together to try to keep the facilities
- 9 up and running after the storm.
- There still remains issues in 11
- 11 municipalities on specific problems with their
- 12 systems. We continue to work with remediation
- 13 efforts on those facilities right now.
- On the storm water front, we also
- 15 saw significant challenges as well. Of the 82
- 16 hardest hit towns, about 30 needed repairs.
- 17 Still 20 are still doing assessments on those 20,
- 18 those 20 towns. The impact on those storm water
- 19 systems in those towns is some of the problems we
- are having and some of the flooding, some of the
- 21 towns along Barnegat Bay and other areas we are
- 22 seeing right now. Again, some of it was simply
- 23 sand stuffed in there and other debris, some
- 24 cases the water and other impact of the storm has
- 25 significantly damaged those systems.

- 1 So it's million dollars worth of
- 2 work on those as well that have to be focused on.
- 3 As New Jersey moves forward to rebuilding these
- 4 systems and infrastructure, it is essential to
- 5 rebuild with a vision of resiliency and

6 reliability for future catastrophes. You a	6	reliability	for future	catastrophes.	You as
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- 7 going to hear me say that a lot. Resiliency for
- 8 the future. That is the vision I have. That is
- 9 the vision that the Governor has.
- Right after the storm the Governor
- said to me we've got to make sure that we could
- 12 find a way to build in, build in mitigation
- 13 standards that we can build in resiliency for the
- 14 long haul for these facilities. It's bad that it
- 15 happened once. We have to look to the future to
- 16 make sure it doesn't happen again or at least
- 17 minimize the damage the next time around if it
- 18 does happen for these kind of storms.
- 19 Rebuilding is the priority. The
- 20 Governor has made that clear. We are going to
- 21 rebuild this straight and a big piece of
- 22 rebuilding the State has to be rebuilding the
- 23 infrastructure within the State.
- 24 Michelle's team of Division of Water
- 25 Quality will provide oversight for wastewater

- 1 treatment facilities. It's been conducting
- 2 outreach, investigating funding options for those
- 3 facilities, developing new guidance that will aid
- 4 in rebuilding New Jersey's water infrastructure.

5	We have	been	working	to e	xpedite	permits	and
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- 6 treatment works approvals. So again focusing with
- 7 all these facilities to make sure we get them
- 8 back up and running, and also trying to find ways
- 9 for money, from both the Federal Government, and
- 10 leveraging EIT and other infrastructure in the
- 11 state, financial infrastructure in the state to
- make that work.
- 13 Let me briefly talk about some of
- 14 the other things we have been doing that focus on
- 15 water quality overall, and this deals with water
- 16 quality in our rivers, our streams, the bay areas
- 17 overall. This focuses on debris removal. After
- 18 the super storm Sandy we focused on debris,
- 19 terrestrial debris was we called it, right after
- 20 the storm. That meant getting debris off the
- 21 streets. I was driving my team crazy every
- 22 single day and said get the debris off the
- 23 streets. I was screaming at night and day. The
- 24 debris was a critical element of making sure,
- 25 from a health and safety issue in the state we

- 1 got that debris off the streets.
- 2 Jane Kaskinski, my Assistant

- 3 Commissioner was ready to pull out her hair. I
- 4 see Jane in the back. Jane I want to give you a
- 5 hand. Jane worked with all the towns to
- 6 coordinate that movement of debris overall.
- 7 That was a massive task, and in
- 8 three months the State moved eight million cubic
- 9 yards of debris off the streets. That is
- 10 staggering, compared to any other disaster before,
- 11 New Jersey made that happen overall. I give the
- 12 Mayors credit, they stepped up. The local towns
- 13 stepped up, they delivered on that.
- The second phase of what we are
- 15 working on right now is what we call wet debris
- and that's dealing with the water quality and
- 17 helping deal with some of the flooding issues and
- some of the other issues we are seeing overall.
- 19 Wet debris is all the debris that is washed in
- 20 from the storm.
- 21 As I mentioned earlier Barnegat Bay
- 22 had 58 houses wash into it, eight of those houses
- are pretty well intact, guess what happened with
- 24 other 50? There's pieces all over Barnegat Bay.
- 25 Besides, there's refrigerator, cars, microwave

1 ovens, pick whatever you want it is in Barnegat

- 2 Bay.
- FEMA also estimated there's up to
- 4 ten million cubic yards of sand that washed into
- 5 Barnegat Bay as well. Barnegat Bay and some of
- 6 the lakes, coastal lake, the rivers around there,
- 7 Shark River. Other places sand has been pushed
- 8 everywhere besides debris into these, this helps
- 9 contribute to some of the flooding on the back
- 10 bay areas of some of these towns; it obviously
- 11 effects water quality long term. So we need to
- 12 get that debris out. It also is a major public
- 13 safety issue. Boating is very big on a lot of
- 14 these rivers, these bay areas we have to get that
- 15 debris out overall, so we continue to focus on
- 16 that as we move forward.
- 17 The clean up of the waterways, we
- 18 have hired three contractors, starting from
- 19 Bergen County all the way around to the Delaware
- 20 Bay, all the way up to the Delaware Memorial
- 21 Bridge. So the entire coastline. We've got
- 22 companies going and picking up debris and
- 23 worrying about how we are going to move that
- 24 sand. Hopefully in the next few weeks you will
- 25 see the major houses taken out of the water and

- 1 we are now working with the Army Corp of
- 2 Engineers with how we are going to move that sand
- 3 from Barnegat Bay, hopefully getting a lot of
- 4 that put back on the beaches as we move forward.
- 5 We expect the majority of our waterways to be
- 6 open this summer, and we are asking everyone out
- 7 there to use common sense and caution when
- 8 boating. So again, we are very optimistic about
- 9 the work that is being done, but again we are
- 10 asking people to please be cautious and focus on
- 11 what's right, the right things to do out there.
- 12 Army Corp of Engineers clearing out the
- 13 intercoastal waterways, Department of
- 14 Transportation is identifying the state
- waterways, channels that need to be cleaned out.
- 16 And DEP we are directing the overall operation to
- 17 make sure that clean up occurs overall.
- Our goal is to have 75 percent of
- 19 the waterway debris removed by June 1st. Again it
- 20 is a hefty task, we continue to focus on it and
- 21 we expect our contractors to keep pushing to make
- 22 that happen and they are working seven days a
- 23 week to make that happen.
- Let me talk about shore protection
- as well. As I mentioned earlier we talked about

- 1 beaches and all the rest of that. Let me first
- 2 talk about ocean water quality. Ocean water
- 3 quality remains very good. One of the challenges
- 4 that we continue to have is debris that is in the
- 5 ocean as well washed up from the storm.
- We continue to work with all the
- 7 towns and keep the beaches clean this summer but
- 8 we do expect some of expect some of that debris
- 9 to wash up over the summer, but the water quality
- 10 remains excellent which is good from our point of
- 11 view. Again. We are going to continue to
- 12 monitor the beaches and work with them to make
- 13 sure that's clean. One of the biggest challenges
- 14 we have is rebuilding the beaches across the
- 15 State.
- The one key thing that this storm
- 17 showed us was that, you know, an engineered beach
- 18 with dunes protects towns, protects home, protects
- 19 businesses, protects infrastructure.
- We learned that from this storm. We
- 21 knew it before this proved that fact. So from our
- 22 point of view the Governor has made it crystal
- 23 clear; we are going to build a full coastal
- 24 protection system from top to bottom. Along the
- 25 entire coast.

1	Congress and the President has
2	approved over one billion dollars to rebuild that
3	entire coastline. That is absolutely critical for
4	us long term. When we talk about rebuilding
5	infrastructure, water infrastructure and other
6	infrastructures we have to protect that
7	infrastructure long term. To be able to do that
8	we have to have a coastal protection system that
9	includes injured beaches, that includes dunes in
10	the right places, but needs to then be maintained
11	long term.
12	The Governor is committed to that.
13	I am committed to that, and working with the Army
14	Corp to get that plan together to use that money
15	that Congress has provided to us to make sure
16	that gets done going forward.
17	As New Jersey moves forward to
18	rebuilding these systems and infrastructure
19	overall it is essential that we rebuild with
20	increased resiliency for the future catastrophes.
21	I have said it before and I am going to keep
22	saying it "resiliency" is the name of the game
23	that we are going to continue to focus on that.

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25 we are going to continue to work closely with the

1	Governor's	Office	of recovery	and	rebuilding.

- 2 Mark Forsan, the Executive Director to that
- 3 program, Mark is the overall quarterback for the
- 4 State, for the State on rebuilding the State,
- 5 Mark works directly for the Governor and is the
- 6 quarterback for that state. I work directly
- 7 through the Governor, and we are working together
- 8 as a team to make sure all the programs work
- 9 together to get the money for the Federal
- agencies to get the job done, but also at the
- 11 same time, is a coordinated effort overall so we
- 12 are doing all the right things, rebuilding
- 13 infrastructure and rebuilding the State as we
- 14 move forward.
- Three areas that I am responsible
- 16 for, for the Governor as we move forward around
- 17 rebuilding, including environmental
- 18 infrastructure, work overall which includes
- 19 primarily the water infrastructure. Michelle
- 20 Siekerka is my lead in that area.
- I also am responsible for natural
- 22 and cultural resources in the State to make sure

- 23 rebuilding everything from habitat to parks to
- 24 other areas of the State. And I am also
- 25 responsible for statewide hazard mitigation.

- 1 Again looking at how we are going to do multiple
- 2 programs on that front. Everything to support
- 3 elevations and a bigger part of that is to
- 4 support the buy outs in several parts of the
- 5 State. The Governor has already talked about we
- 6 are going to spend at least 250 million of buy
- 7 outs on homes that are in the areas that need to
- 8 be bought out that have either been substantially
- 9 damaged or continuously have damage over a long
- 10 period of time, that should be bought out certain
- 11 areas. We expect to buy out at least a thousand
- 12 homes along the coastal area or areas that are
- 13 tidally flooded.
- 14 Again, part of the work that's going
- on with Michelle's team will be new guidelines
- 16 for auxiliary power, reconstruction and emergency
- 17 response planning and implementation.
- We are working with the Federal and
- 19 State agencies to maximize funding for water
- 20 utilities to address technical issues and

- 21 facilities to turn into a more resilient state
- 22 overall. Environmental infrastructure trusts will
- 23 be critical to this overall. Dave Zimmer,
- 24 Executive Director of that program is absolutely
- 25 critical and part of our team as we move forward.

- 1 We are making sure that we are working together
- 2 very closely to make that happen. EIT over the
- 3 last 25 years has had over a thousand projects
- 4 totaling over six billion dollars worth of water
- 5 quality and public health related environmentally
- 6 infrastructure projects.
- We see numerous projects coming out of this
- 8 very specifically related to wastewater treatment
- 9 plant and overall water supply.
- Again, we plan on focusing on CSO's
- 11 as well which play a role in the amount of water
- 12 going into wastewater treatment facilities and
- 13 again focusing on clean water to make sure that
- 14 is happening. Rebuilding New Jersey wastewater
- 15 infrastructure that's reliable, resilient and
- 16 cost effective to the future natural disasters is
- 17 dependent on implementation of sound, asset
- 18 management practices.
- 19 Sound asset management practices, in

- 20 addition long term capital investments. Those
- 21 have to happen long term. I plan on working with
- 22 the communities, municipalities and all the water
- 23 supply and wastewater facilities across the State
- 24 as we look to make sure those things happen long
- 25 term.

- 1 You have heard me say it before and
- 2 again I emphasize the vulnerabilities we are
- 3 experiencing now in this last storm. Again we
- 4 don't want those repeated and I hope we don't see
- 5 another Sandy any time in the near future but
- 6 again if we don't plan for those, if we don't
- 7 prepare ourselves, we expose ourselves to that
- 8 risk in the future if we don't.
- 9 In closing, I want to thank all of
- 10 you for your focus on it, I want to thank the
- 11 Council's focus on their work, I look forward to
- 12 hearing your testimony and getting input today
- 13 and getting a report back to you on this critical
- 14 issue. Michelle Siekerka and her team will be
- 15 working with you as we start out the future and
- 16 Michelle will talk to you in a lot more detail
- 17 with the things we are working on right now. We

- are working with EPA, we are working with FEMA,
- 19 we are working with HUD, and a lot of agencies to
- 20 do a lot of the planning necessary, to make this
- 21 happen.
- We must rebuild this State. We must
- 23 rebuild a resiliency. So I need all of you to
- 24 help us keep that focus for DEP. That is my
- 25 commitment to you and that is my commitment to

- 1 the State and that is the Governor's commitment
- 2 to the State. Thank you very much.
- 3 CHAIRWOMAN GOODWIN: Thank you once
- 4 again Commissioner Martin. Assistant Commissioner
- 5 Michelle Siekerka needs little introduction in
- 6 this room, I am sure. She has served as the
- 7 State's Assistant Commissioner for Water
- 8 Resources since February 2012.
- 9 She came to the position by way of
- 10 the Department's growth and Green Energy Division
- and while water regulations were relatively new
- 12 to her at the time she has proved a quick study.
- 13 While some experience trial by fire, I think it
- 14 is fair to say that Assistant Commissioner
- 15 Siekerka, herself a lawyer, has been tried by
- 16 water.

17	Michelle will provide you with an
18	understanding of how the State's water resources
19	were impacted by the storm and lessons learned
20	for the future.
21	It is my privilege to introduce to
22	you NJDEP Assistant Commissioner, Michelle
23	Siekerka.
24	MS. SIEKERKA: Thank you for your
25	time and attention this morning on these really
	26
1	critical issues that we are facing with the
2	State. Before I start, I want to do a couple of
3	introductions, because I have my team in the room
4	today and without this team we couldn't be doing
5	the awesome things that we are doing. Michelle
6	Putnam is my Director For Water Quality. Fred
7	Sickels is the Director For Water Supply, and
8	Jill Lepody toward the back is the Director For
9	Monitoring. I want to thank them because I made
10	their lives a living hell for the last six months
11	so their support has been tremendous.
12	We picked this title today because
13	this is really the key issue facing us.
14	Commissioner Martin used the word "resiliency"

- 15 numerous, numerous times. We are living that
- 16 word, breathing that word, swimming in that word
- and the key to that is good asset management.
- What I would like to do is walk
- 19 you through where we were, where we are going and
- 20 how we are going to get there.
- Where we were on October 28th, we
- 22 had a lot of heavy initiatives on our plate
- 23 already at that point in time. We were dealing
- 24 with the concept of comprehensive water resource
- 25 management. What would it mean in the future to

- 1 take a more holistic comprehensive approach to
- 2 deal with our water issues throughout the State
- 3 of New Jersey? Barnegat Bay, the Governor's ten
- 4 point plan, we were a few years into executing on
- 5 that plan and we continue to execute on that
- 6 plan. Some of that execution has changed a bit
- 7 given the things that we experienced. CSO's, a
- 8 tremendous stressor for the State of New Jersey.
- 9 We were ready to roll out our CSO strategy for
- 10 the State, which right now we're back in action
- 11 moving forward with the first state draft permit
- 12 coming out later this week.
- The Water Supply Plan, Fred and

- 14 his team have worked feverishly on the water
- 15 supply plan. While it is not public yet, the
- 16 documentation and the information gathered
- 17 through the process helps to inform everything we
- 18 do everyday. Asset management we will talking a
- 19 lot about. The integrated report in C1 Stream,
- 20 Jill and her team have worked tirelessly with
- 21 addressing the stressors to our waters, and the
- 22 big question; how do we address that, to TMDL or
- 23 not, are there better ways to do it? And then as
- 24 we all know, on October 29th we had a nice -- an
- 25 amazing situation hit us by Sandy. And Sandy

- 1 truly exposed the infrastructure's
- 2 vulnerabilities throughout the State of New
- 3 Jersey.
- 4 Yet, what it did do is reaffirmed
- 5 that our priorities, all the things that we were
- 6 working on, up to that day, it reaffirmed that we
- 7 were absolutely in the right direction for the
- 8 future of New Jersey, and all we needed to do was
- 9 shift it into the paradigm of post Sandy and we
- 10 could still accomplish a lot.
- We learned that CSO's and reducing

- 12 infiltration and inflow are going to be key to
- 13 resiliency in the future. OEM under asset
- 14 management, moving forward, identifying
- 15 criticality, emergency response planning and
- 16 storm water issues.
- 17 I want to give you a sense. The
- 18 Commissioner told you about the damages, 2.6
- 19 billion dollars overall. We conducted an
- 20 extensive survey and assessment of our
- 21 facilities. Numbers are broken down a bit here
- 22 you can see 1.7 billion dollars is what is
- 23 predicted for making our systems more resilient
- 24 for the future. That resiliency, that mitigation
- 25 could be anything from just some new alternative

- 1 entering or a new back up generator to flood
- 2 walls and very significant flood proofing as part
- 3 of the recovery.
- 4 I want to walk you through some
- 5 lessons learned and we certainly had a few
- 6 internally and what we experienced in the wake
- 7 and in the few weeks following the storm.
- 8 Resources; we learned right at the beginning that
- 9 data is key to a recovery. Data is key to a
- 10 recovery. While we started Thursday before the

11	storm in	gathering	information	and	updating
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- 12 emergency information and checking remote access
- 13 and things, again you never thought that people
- 14 would be without their ability to communicate and
- 15 everybody being on personal cell phones out in
- 16 our industry as opposed to being able to be more
- 17 readily able to pick up a phone right at their
- 18 facility, you know, having private phone numbers
- 19 and home phone numbers and way to communicate was
- 20 extremely important.
- You know we went through some role
- 22 definition, we are with water quality in people
- 23 in the state. We are about making sure that
- 24 supply continues and making sure that we are
- 25 protecting waters. But what happened during that

- 1 time is you know we had to take on many different
- 2 roles, we became major trouble shooters during
- 3 that time.
- 4 We were a single line of
- 5 communication, our facilities. We mand the rock
- 6 24/7 for two-and-a-half weeks which was
- 7 tremendous and again thanks to my 400 plus
- 8 employees and I have to tell you 400 plus

9	employees we had just shy of 300 who stepped up
10	to that effort to mand the rock for 24/7 for
11	three weeks. Amazing folks.
12	Communications I touched upon that a
13	little bit but we need to improve the
14	communications we need to make sure that we have
15	more resilient two way communications, not just
16	among ourselves and the industry, but all the
17	other people who came to be important part of
18	that recovery immediately. All of our trade

19 associations who stepped up and they reached out

20 to private industry who stepped up.

21 It wasn't just about the State being

22 there, it was about manning this huge force of

23 business people who were out there helping each

other. Communications in and amongst agencies 24

25 how we communicate our own OEM, how we

- communicate with each other. All of those
- 2 communications we learned that we have
- opportunities to make them even better for the 3
- next time.
- Then we have the primary threats to 5
- our facility and what we learned. Power loss was 6
- significant. We had facilities who were down two 7

- 8 and three weeks. We couldn't move fuel around
- 9 the State fast enough. Flooding and inundation of
- 10 systems. It is amazing when you see pictures of
- 11 Army Corp and EPA folks literally in dive tanks
- down in the wells of some of these treatment
- 13 facilities, you can't imagine unless you saw it
- 14 firsthand.
- One of the biggest concerns that I
- 16 have in terms of a primary threat on how we
- 17 address this and move forward is, taking a
- 18 business as usual mentality. That is something
- 19 we absolutely cannot do. This is a new paradigm
- 20 this is not going to go away. This is not a year
- 21 from now we are going to step back and say we
- 22 will never get that again. We have to make sure
- 23 that we are vigilant and keep our vigilant stuff
- 24 as we do our rebuild. The biggest challenge is
- 25 physical; where is this money coming from? I

- 1 want to thank John who is here from the Federal
- 2 Homeland Security. He is one of the key liaison
- 3 from the joint field through the recovery. He
- 4 and his team are helping us coordinate Federal
- 5 funding so we can maximize the federal dollars

- 6 that are out there.
- 7 I'd like to explain how go through
- 8 this. How are we rebuilding in the State? The
- 9 federal framework and this is new framework for
- 10 dealing with the disasters that the Federal
- 11 Government is using for the National Disaster
- 12 Recovery framework. Within the framework there
- 13 are six recovery support function work teams, the
- 14 RSF's. As Commissioner Martin mentioned, he is
- 15 responsible for aspects of that. So of the six,
- 16 one of the six RSF's is infrastructure. In one
- 17 of the infrastructure are three components; there
- 18 is transportation which Commissioner Simpson
- 19 heads. There is energy, which President Hanna
- 20 heads, and then environmental infrastructure
- 21 which is the catchall of everything outside of
- 22 that, that Commissioner Martin leads for the
- 23 Governor and he's asked me to lead right now.
- 24 And then we have subgroups within that working on
- 25 numerous issues. We have biweekly coordination

- 1 meetings with our partners at the Federal
- 2 Government. We have weekly meetings as a team
- 3 and we have numerous layers of how we are trying
- 4 to do things, and we have created sub core groups

- 5 to work on guidance, and I will give you a little
- 6 -- actually here, we are working on resiliency
- 7 standards, we are working on auxiliary power,
- 8 asset management and emergency response plans.
- 9 That key data I was talking about before, we are
- 10 working within our own little world of
- 11 environmental structure but also across DEP and
- 12 across the State with the OIM partners, those who
- are responsible for our technology around the
- 14 State on how we can have better data graphs for
- 15 things. We are addressing those power issues and
- 16 the fuel distribution issues and working on a lot
- 17 of cross-agency issues and among the recovery
- 18 support groups, but also all of the state
- 19 agencies as well.
- What we have done so far in our
- 21 small corner of the world, we have conducted
- 22 eight round tables, this was predominantly in our
- 23 water, wastewater arena, and water supply and
- 24 storm water, but like all water, because we also,
- 25 within environmental infrastructure we have solid

- 1 waste and we have landfills, and the chemical
- 2 refineries. Our infrastructure is bigger than

- 3 water, but today our focus is on water.
- 4 In the water world it is discussed
- 5 on damage assessments, the status of rebuilding,
- 6 what types of mitigation measures and how we are
- 7 going to fund it. When PBSC went down, you heard
- 8 those statistics earlier, it is a major -- not
- 9 just what they do in terms of water treatment
- 10 side, but when it comes to sludge management. We
- 11 had to step up and find other ways of dealing
- 12 with sludge and be able to send it and process it
- 13 in other ways. We learned that we have some
- 14 capacity issues in that regard in the state that
- 15 we are trying to address.
- Going forward, when we address how
- 17 are we going to address these threats from Sandy.
- 18 Phase one is recovery. I will spend a few minutes
- 19 now digging down into power loss and near term
- 20 actions around that.
- We are working on standards. Right
- 22 now our rules talk about, and they are general
- and this is why everything that I talk about now
- 24 is going to be guidance documentation. We are
- 25 not issuing emergency rules. We are honed

1 through regulations and are comfortable with the

- 2 fact that our authority exists in order for us to
- 3 send some guidance out that interprets our rules
- 4 in a way that will make us more resilient. You
- 5 can anticipate that within a next few weeks to a
- 6 couple months the guidance documents will be
- 7 coming out. We have been working long and hard
- 8 on them and getting feedback as we go along and
- 9 have the opportunity to further feedback as we
- 10 continue.
- On this piece of it on the power
- 12 side we realize when we say, you know, enough
- 13 energy to ensure continuous operations, that is
- 14 what the permit requires, continuous operation,
- 15 what does that really mean? And we were always
- 16 of the impression that we thought, well, 12 to 24
- 17 hours would be adequate. And when we go out and
- 18 do our compliance visits, that would be about
- 19 what we would be looking for and we realize that
- 20 that is no longer the case. With that comes
- 21 tremendous challenge because we can't stock pile
- 22 fuel. You can't, you are going to create
- 23 hazardous issues and the issue of moving fuel
- around the State.
- 25 So we are looking at different ways

- 1 to address that issue albeit it can be in a
- 2 regional area where there are certain depots set
- 3 up more regional collaboration, but also in terms
- 4 of backup generation and alternative generation.
- 5 We are trying to be very open minded and very
- 6 broad in our trigger backup generation. How do
- 7 we get folks off the grid to make the grid more
- 8 resilient in of itself? How do you take a huge
- 9 plant like PBSC make them more resilient, maybe
- 10 get them off the grid? Sludge facility perfect
- 11 candidate for combined heat and power. Why don't
- 12 we think of things like that? Those these are
- 13 the types of strategies that we are looking for
- in terms of resiliency for energy in the future.
- 15 Flood impacts, we know Sandy what
- 16 was very interesting that the facilities got
- inundated with flood waters because of the surge.
- 18 The surge was unprecedented. I don't know you
- 19 would have really -- for what occurred, the
- 20 surge. We know the biggest vulnerability is the
- 21 flooding regularly we experience in the State of
- 22 New Jersey. We know in Irene the type of
- 23 flooding that we experience and how that impacts.
- The standards we are looking at
- 25 interpreting our standards through the

- 1 construction standards to ensure that we are
- 2 addressing proper areas for flood impact, whether
- 3 it be elevation of motors and pumps and the
- 4 generators and making sure that anything that is
- 5 vulnerable or is important to keep the facility
- 6 in a constant state of operation is elevated so
- 7 it is not in the base.
- 8 It is interesting, everybody goes
- 9 around and says where are all the motor controls
- 10 and everything? They are 40 feet down. Well
- 11 when the 40 feet down got flooded 40 feet up, we
- 12 had significant challenges.
- Different ways of the facilities
- 14 hardening their assets on the inside. The other
- 15 way is hardening their assets from the outside.
- 16 Some situations where maybe you have a facility
- 17 that has more of a campus setting, something like
- 18 a flood wall makes the most economic sense.
- 19 Though you might say oh my God, a flood wall?
- 20 Think about it, if we have 55 separate buildings
- 21 running a facility, and if you just look at each
- 22 one of them individually as its own component
- 23 everything you miss in the between, like the
- 24 access, the ability to get in and out, the
- 25 ability to move things among those buildings.

- I It's a situation, I guess like that, we have to
- 2 make sure to be more comprehensive and look at
- 3 some of these facilities as a campus versus their
- 4 individuals buildings.
- 5 This is an example of some of the
- 6 things that we are we are working on in that
- 7 regard. Addressing threats from Sandy and other
- 8 future events. When we talked about more so how
- 9 do we become more resilient for the future? We
- 10 see we have some really tremendous opportunities
- and this is where I come back and I say I was so
- 12 happy to see that we were moving in the right
- 13 direction with all the really big initiatives
- 14 that we had up on October 28th, they are the ones
- 15 that we need to make us more resilient as a
- 16 state.
- 17 I think that Sandy offers us the
- 18 opportunity maybe to bring new attention, some
- 19 more financing and some more sense of urgency to
- 20 those things, that on October 28th those people
- 21 said yeah that is a nice to have but how are we
- 22 going to get there. And now the sense of urgency
- 23 says we must get there and how are we going to do

- 24 it. We want to take full opportunity of the
- 25 opportunity that Sandy provides us in that

- 1 regard. Asset management, we had one or two prior
- 2 councils on asset management. I want to thank
- 3 all of you because what you have provided to us
- 4 in the past on asset management helped to inform
- 5 the documents that were the plan that you were
- 6 getting ready to release the week that Sandy
- 7 happened
- 8 I want to walk you through some of
- 9 that and remind us all of the importance of asset
- 10 management and why it what it means even more
- 11 right now. We have to talk about long term
- 12 benefit and the thing we find challenging in
- 13 government. I found it coming from the outside,
- 14 what I found very challenging in government is
- 15 the idea to be comprehensive. You know what,
- 16 comprehensive planning takes years to accomplish.
- 17 You know, it's all about the plan, great, but you
- 18 know what, planning means nothing if you can't
- 19 execute and implement. Our goal is to get
- 20 executing and implementing.
- So most of you know the assets of
- 22 the State and I apologize because our water

- 23 systems number is a little high, it is more like
- 24 604. But most of us know the assets that we have
- 25 in the state, you lived around these assets and

- 1 are familiar with the numbers and the
- 2 distribution between publically held and
- 3 privately held and some of the challenges that
- 4 come along with that. You also know, because you
- 5 live in this world, that there are numerous
- 6 regulatory authorities of that their hand in
- 7 asset management or need to have their hands in
- 8 asset management for us to be successful. We
- 9 have been working across agencies with our
- 10 partners at BPU at DCA whether it is how to
- 11 finance this, regulate it or bringing it
- 12 together. DOT, great example, DOT is going to be
- 13 rebuilding a major roadway. How about the
- 14 infrastructure that is underneath it? How do we
- 15 look at DOT's long term plan, their capital
- 16 improvement plan and how do we align our ability
- 17 to make some of our infrastructure stronger and
- 18 an even better asset management in tantum with
- 19 their planning? We know that the grades
- 20 infrastructure in the State of New Jersey are

- 21 poor. You know, I have twins who are juniors in
- 22 college these grades wouldn't make me happy. And
- as a state they don't make us happy, and again,
- 24 it is an action for us. That said, we also know
- 25 that New Jersey is not at all unique in this

- 1 regard. You look at reports for asset management
- 2 and just remember we are one of the original 13
- 3 colonies remember when we rebuilt our pipes,
- 4 states are a little younger than us in the game,
- 5 they will be right behind us shortly, but we
- 6 definitely have a lot of work to do. And the
- 7 numbers are staggering, 45 billion dollars, you
- 8 know when we are in an economy like we are with
- 9 2013 with all the issues facing us, it is a
- 10 daunting task to get it together.
- We know that our infrastructure is
- 12 ailing, it is aging, we know that we have these
- 13 assets and the fact that they are not in front of
- 14 us. You know, you see a bridge, you see a bridge
- 15 when it has an issue, you see a roadway when it
- 16 has a pot hole. You know when we know about the
- 17 vulnerability about the water pipes? When a
- 18 major trunk line in Monmouth County goes down and
- 19 you are in the process of having to repair it,

- and our friends of New Jersey Water, some are in
- 21 the room today did an outstanding job of getting
- 22 that trunk line back up very, very quickly.
- We know Fred, right, Friday
- 24 afternoon comes that call that there is some
- 25 water main break and Fred's nightmare comes to

- 1 the rouse where he hears where it is, oh my God,
- 2 I hope we don't have to bypass to the X pipe, you
- 3 know what that means? It will be okay, Fred, it
- 4 will be okay. Asset management does provide us
- 5 the effective mechanism to get the authority to
- 6 do it, I think it is just the will to push it,
- 7 and again, I think the urgency of right now will
- 8 get us there.
- 9 The absolute key is getting to the
- 10 first phases of asset management which is really
- 11 that condition assessment and criticality
- 12 analysis. This is where we are going to be
- 13 pushing, this is where you are going to see the
- 14 Department pushing on these first phases, and to
- 15 the extent that we can incorporate that into our
- 16 permits in a way that can be, you know, fiscally
- 17 responsible, and to the extent that we can bring

18 sc	me of	these	federal	dollars	to	that	process
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- 19 that's what we are working on trying to do.
- I mentioned interagency, how do we
- 21 marry our authority, it goes beyond. I know Dan
- 22 Kennedy is here from the Office of Planning
- 23 Advocacy, he has been working with us and you see
- 24 we have the federal partners too of how we move
- 25 forward. The initiatives will include policy

- 1 decisions and determinations, and planning and
- 2 regulatory changes, and that is not an easy thing
- 3 to do, but where there is a will, there is an
- 4 absolute way.
- 5 Our goal is to design effective and
- 6 and useful management plans and get us where we
- 7 need to go. The key is making a right investment
- 8 at the right time and this is the education part
- 9 that we need to spend time, and this is where we
- 10 need your help. We need to get the communities to
- 11 understand.
- Right now water is the cheapest
- 13 commodity we got going out there. We need them
- 14 to understand that a broken pipe will cost them
- 15 more than a long term asset management plan, and
- we need them to understand what resiliency means

- in terms of repairing their infrastructure and
- 18 spending a few more cents on their dollar, and I
- 19 always think everybody uses the same example; one
- 20 bottle of water costs a dollar, \$1.50, \$2.00,
- 21 that if you are at some event or whatever and we
- buy them all the time, right? We buy them all
- 23 the time. What is your monthly water bill? Think
- about if you didn't buy two bottles of water we
- 25 could put it to our monthly water bill, we would

- 1 be in action.
- 2 Education is extremely important.
- 3 And we need to be on the same page and you could
- 4 be so helpful to us with that. Some of the other
- 5 actions outside of asset management but that
- 6 clearly go with asset management; infiltration
- 7 and inflow we know this is a major stressor on
- 8 the POTW. We saw it with MCUA, it was inundated
- 9 with surge, but when they had all the flood
- 10 waters coming in, and because of the leaks in the
- 11 pipes, they are having excess capacity coming to
- 12 their pump station that they just can't handle,
- 13 it makes them extremely vulnerable.
- 14 Any facility that's got pipes coming

- 15 into them that is leaky and getting excess water
- 16 in there, it's making them extremely vulnerable.
- 17 So what is the answer going to be? Are we going
- 18 build bigger POTW's and say more capacity? No if
- 19 we go in and fix the pipes, it's the more
- 20 economic way to go.
- So we need to look at infiltration
- 22 and inflow and how that plays into our ideas with
- 23 asset management. Storm water and green
- 24 infrastructure this is extremely important with
- 25 in the rebuild, and again resiliency, resiliency

- 1 resiliency in these types of remedies. We see it
- 2 all the time, we are planning a white paper which
- 3 will be rebuilding with the environment in mind
- 4 and have a lot of information on green
- 5 infrastructure; whether it be for rebuilding your
- 6 home or rebuilding your business, or around our
- 7 infrastructure, but the opportunity to engage in
- 8 more green infrastructure and to make sure that
- 9 in the rebuild we are being acutely aware of the
- 10 impact on storm water that will help us with the
- 11 funding on the other side of all this and make us
- 12 all much more resilient. CSO's, you heard me
- 13 mention that we have the first draft permit

- 14 coming out, the end of this week is our goal but
- 15 down in the Camden area, and this is our launch
- 16 over the next, we are committed to getting the
- 17 draft permits out to all those effected by your
- 18 CSO's in the State, and we have an extremely
- 19 comprehensive strategy, and again, CSO's are a
- 20 stressor on the community and a stressor on the
- 21 quality of our water. And in Sandy, the more we
- 22 can eliminate CSO's the more resilient the
- 23 communities will be, tying it right back into the
- 24 rebuild, the goal is to use some of the revolving
- 25 fund money in the special appropriation of EPA in

- 1 our CSO communities to relieve the stressor and
- 2 make those communities much more resilient.
- There was one quirky fact here
- 4 though. You heard the Commissioner reference
- 5 unfortunately with the discharges that we had
- 6 going on in the days post Sandy, which was you
- 7 know, horrible, and it dissipated quickly and
- 8 Jill and her team were out there monitoring from
- 9 day two through to today, continuing to make
- 10 sure that the water quality is A plus, which it
- 11 is, but what was interesting thing in the CSO

- 12 communities, because they were bypassing they
- 13 weren't flooding people's basements. This is one
- 14 time where CSO's were almost like a reliever as
- 15 opposed to a stressor.
- Again, you have to think of
- 17 everything on balance, right? Industrial
- 18 discharge; we had the issue during Sandy, talking
- 19 about sludge and the inability to have capacity
- 20 for it. Though we got it all taken care of,
- 21 people stepped you up and we got it moved and got
- 22 it done. There is a challenge when you have
- 23 numerous industrial discharges POTW -- we use
- 24 PSCP as an example, you are trying to reduce the
- 25 flow to the POTW, trying to relieve them so we

- 1 can rebuild and get back on the treatment, where
- 2 they are supposed to be
- Then when you have to go and call up
- 4 the industrial discharges and ask them to reduce
- 5 their flow, and these are major corporation, you
- 6 ask them to reduce their flow, that is ching,
- 7 ching; that is dollars out of their pockets. And
- 8 the story I always love to tell, we have a list
- 9 of how many calls did we make, Michelle?
- 10 Hundreds of calls, hundreds of calls to the

- 11 discharges to PVSC, saying to them whatever you
- 12 can do to reduce your flow and poor Wayne, my
- 13 Director of Operations called Newark Airport; you
- 14 don't want to know the answer he got, very
- 15 interesting.
- Managing our water resources, this
- is for my team, this is what it's all about.
- 18 Because we were already been doing comprehensive
- 19 water resource management over the past year and
- 20 everything we did. And what we mean by
- 21 comprehensive water resource management is
- 22 integrating across the programs, across the three
- 23 programs. When we are talking about supply we
- 24 are talking about quality and monitoring standard
- and we have this great, you know, cycle of how we

- 1 assess and how we remedy and how e take the next
- 2 step, and the goal here is improvement of our
- 3 waters, anything we can do to keep moving the
- 4 needle. So I step back and say we know what the
- 5 stressors on the water systems are. We know what
- 6 the stressors on the rivers, the streams, the the
- 7 lakes or the water bodies are. We know what they
- 8 are. We don't have to plan and study it anymore,

- 9 we know it. Let's start addressing it.
- What's the best way to address it in
- 11 a comprehensive regional manner? How do you take
- 12 a region and look at the stressors to that water
- 13 body in that area and start putting strategies in
- 14 that on a regional basis, so that you are not
- 15 doing things in silo, it is all comprehensive,
- 16 all working together. And this is the direction
- 17 that we are moving in, and this is the direction
- 18 we are forging forward with. And we learned with
- 19 Sandy, if would have been set up in a more
- 20 regional basis, our recovery would have been
- 21 easier. Our recovery in the regions that were
- 22 severely impacted and the relationships in those
- 23 regions, and our ability to understand what
- 24 resources are available in a region, who needs
- 25 help in a region and they know each other in the

- 1 region, helps us for better resiliency as well.
- 2 A couple of major wins on
- 3 comprehensive water management. Not only does it
- 4 make us resilient for the future and get us
- 5 acting on what the stressors on our water bodies
- 6 are, and recognizing the uniqueness; and the best
- 7 examples I can give are Barnegat Bay is not about

- 8 industrial dischargers. TMDL, not necessarily
- 9 the right remedy, Governor's ten point plan a
- 10 step in the right direction. But now turn and
- 11 look at Raritan, industrial dischargers. Maybe a
- 12 TMDL is the answer there. We know who they are,
- 13 we know what we can do, we are not just going to
- 14 do it one stressor at a time. We are looking at
- 15 all the stressors on Raritan and who all is
- 16 involve and and how do we have that comprehensive
- 17 plan to address it? A great example, if we took
- 18 a cookie cutter approach of a statewide strategy
- 19 of how we are going to clean up the water we get
- 20 nowhere. If we look at the region and focus on
- 21 the stressors and put the right team together, we
- 22 absolutely get improvement, and that is the
- 23 direction we are going.
- This just talks a little bit more
- about that. Financing, all about money at the

- 1 end. Commissioner mentioned EIT, we are trying
- 2 to maximize the state resolving fund. There is a
- 3 special appropriation in the Sandy Bill, it was
- 4 600 million, but because of the sequestration,
- 5 it's 570 million. We are anticipating that New

	6	Jersev	will	get a	appro	oximatel	v 40	percent	of	th
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- 7 money and we are writing our plan right now how
- 8 we are getting that out on the streets for the
- 9 facility. The beauty of that is we take the
- 10 dollars that come to us and leverage through the
- 11 Environmental Infrastructure Trust and be able to
- 12 make that money two or three times the amount
- 13 that we get. So our goal is to take, you know,
- 14 all of the lessons learned, identify the
- 15 priorities for resiliency and leverage those
- 16 Federal dollars as best we can in order to move
- 17 us forward.
- Next steps we are vetting approaches
- 19 with both industry experts like yourself,
- 20 regulated community like some of you in the room,
- 21 we continue to have round table discussions
- 22 anyone who is interested in having us come out
- 23 and do a deeper dive with your organization, we
- 24 have been at most of the trade associations.
- We continue to do a lot of great

- 1 speaking around around the state and we invite
- 2 your input. We are working very closely with
- 3 NJDEP, outside the DEP, with the State and the
- 4 Federal partners with how to move forward. And

5	there we have it, thank you so much, I am an
6	available for some Q and A.
7	CHAIRWOMAN GOODWIN: The gentleman
8	who is walking towards the door is available to
9	move the microphone around to facilitate
10	questions. So please, if anybody has questions
11	for the Assistant Commissioner.
12	MR. VAN ABS: With regard to the
13	financing issue one of the things the Council has
14	looked at in the past is the whole issue of storm
15	water management. Storm water management as it is
16	managed right now is a property tax funded
17	enterprise, handled through municipalities
18	primarily.
19	We have previously looked at the
20	issue of storm water utilities, storm water
21	utility authorities, but having a mechanism for
22	funding that is based on the actual contribution
23	of properties to the storm water issue, as

- 1 There are 38 states that do this,
- 2 New Jersey really does not. So has that come up

opposed to the value of their property and

whether or not in fact they pay property taxes.

24

- 3 in the mix of the conversation
- 4 MS. SIEKERKA: It's been presented to
- 5 us numerous times and what I have said to folks
- 6 is you know, find some good models, show us what
- 7 they are, show us what the cost benefit analysis
- 8 is. But you've heard our Governor speak; no new
- 9 taxes and it is no matter how we slice it, it is
- 10 attacks; but that said, finding the right model
- and showing how maybe at trade off on a benefit
- 12 somewhere else, you know I would never say don't
- 13 bring me a good model because I always think
- 14 there's wears to work things to a good conclusion
- 15 but we know this Governor has said no new taxes,
- 16 no unfunded mandates, and that is that's what
- 17 that would be.
- MR. VAN ABS: Okay, I guess I would
- 19 have to raise the point that we are already
- 20 paying for storm water management, the question
- 21 is how we pay for it
- MS. SIEKERKA: Coming back to my,
- 23 look at it, do the cost benefit analysis of well,
- 24 maybe if it is not coming out here but we are
- 25 doing it this way -- what's the benefit on the

1 other side. So how is the consumer, how is the

- 2 fax pair benefiting by what we are asking them to
- 3 contribute over here and if we can find a balance
- 4 and explain that it is not new, it is a transfer
- 5 to a priority, maybe we get off on it that way.
- 6 I am all for best management
- 7 practices, so bring them on.
- 8 MR. STURM: The comprehensive water
- 9 management scheme sounds great, I am curious how
- 10 it would interface with the water quality
- 11 management plan rule, parts of which were
- 12 deferred by legislature for a couple of years
- MS. SIEKERKA: So did everyone hear
- 14 that?
- MS. STURM: Chris Sturm, from New
- 16 Jersey Future. I am just asking about the
- 17 comprehensive water resource management approach
- 18 and how that would interface with the water
- 19 quality management planning rules, parts of which
- 20 have been deferred for two years by the
- 21 Legislature, and that rule itself needs to be
- 22 authorized
- MS. SIEKERKA: So we are, right now,
- 24 we actually have our rule writing team, parts
- 25 identified we are getting ready to kick it in

- 1 high gear. We are acutely aware of the deadlines
- 2 and what the deadlines mean so we would be
- 3 working feverishly on rules to meet any
- 4 appropriate deadlines.
- 5 We are talking about exactly that.
- 6 How do we incorporate the vision of where we want
- 7 to go more comprehensively on a watershed or
- 8 watershed basis. What does that look like and
- 9 how does that dovetail to existing rules and put
- 10 it through the sausage maker, what comes out on
- 11 the other side? The key is, I think, we know
- 12 that the WQ&P rules have a lot of parts in them
- 13 that are duplicative of other regulatory
- 14 authority and sometimes that can conflict and
- 15 created some angst on both sides, whether it is
- on the side of the regulator or the side of the
- 17 regulated industry.
- 18 So what we have tried to do is
- 19 really comb through the rule, identify where the
- 20 correlation is to other rules so there will be a
- 21 protection so there is never a backsliding, what
- 22 falls out that is left within the rule, that
- 23 isn't covered somewhere else. How do we address
- 24 those pieces, are they the right thing for a WQ&P
- 25 or not, and how we move forward.

In fac	my management	team, about 45
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- 2 of us this Friday have our management retreat on
- 3 exactly these issues of how we are moving
- 4 forward, comprehensive resource management in
- 5 tantum and dovetail to the WQ&P. Our goal is to
- 6 call the future WQ&P, comprehensive water
- 7 resource management that is the direction we are
- 8 trying to go.
- 9 Many of you have given us together
- 10 great thoughts on that and we have great white
- 11 papers the team is doing a lot of homework on
- 12 that.
- MR. ASSELTA: Nick Asselta, president
- 14 of AQUA Water New Jersey, private investor public
- 15 utility water utility.
- I notice in your remarks and I will
- 17 have testimony for the Council, written testimony
- 18 to submit. I notice in your remarks you mention
- 19 600 private community water systems, 300
- 20 municipal water systems; is there any plan at the
- 21 DEP to help encourage, let's say consolidation of
- 22 these particular water utilities? Because we all
- 23 know, you did give a very good pitch for rate
- 24 hike increases and the education process, we
- 25 appreciate that. Was there any plan on the DEP

1	level to encourage that kind of consolidation?
2	We think it's essential. We think
3	over the long haul, with an amount of
4	infrastructure, billions of dollars, 18 billion
5	in New Jersey that is needed that it is going to
6	take the private sector to get this done not just
7	a public sector. I think it is short sighted
8	just to rely on public funds because of a
9	disaster that happened, this is a long term issue
10	and a long term problem that we need guidance
11	from government to begin the consolidation
12	process to make sure these water companies can
13	fulfill their commitment to their customers and
14	the citizens of each town that they can do these
15	infrastructure improvements at a really low cost
16	level.
17	So is there any hope at DEP to
18	engage in the private sector to do that?
19	MS. SIEKERKA: So another thing that
20	Sandy resulted and taught us, was that, I think,

a mayor in a coastal town who is running a MUA is

sitting there going wow, is this something that I

really want to be doing in the future if this

21

22

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25 there are folks who are you know, reconsidering

- 1 what their view on the value of their pipes and
- 2 running systems and being able to collect that
- 3 fee, but in turn what some responsibility of
- 4 collecting that fee is and whether to interrupt
- 5 it or not.
- 6 Again, we have only heard it
- 7 antidotally, but if we see that there is a sense
- 8 out in the community, municipalities or public
- 9 entities coming forward and saying DEP would you
- 10 help to facilitate a discussion around public
- 11 private partnership for the future? We stand to
- 12 do that.
- 13 MR. ASSELTA: Perfect, thank you very
- 14 much.
- MR. PETRUSKI: Glen Petruski,
- 16 Somerset Raritan Valley Sewerage Authority. I
- 17 agree with you resiliency is absolutely important
- and one of the words we have to keep with that is
- 19 sustainability. We need to be resilient and
- 20 sustainable and that brings me to the issue.
- In government agencies, if you are
- 22 working very hard to protect your capital

- 23 investments and raise money for capital
- 24 investments, we tend to have a problem where
- 25 local governments come along and either want to

- 1 aid us or dissolve the thoughts and take the
- 2 monies which would be going to capital or other
- 3 things. Is there going to be a movement from the
- 4 State to try to prevent that from happening by
- 5 increasing regs from DCA or something along that
- 6 line?
- 7 MS. SIEKERKA: Thank you very much.
- 8 When I talk about the partnership with our sister
- 9 agencies, where we were on October 28th and how
- 10 we go forward. One of those discussions is how
- 11 do we work with DCA on how they exercise their
- 12 regulatory authority over those entities?
- We regulate them for quality and
- 14 they set, you know, they set the local finance
- 15 structure. So they have a score card and we have
- 16 talked about how can we, in your score card, how
- 17 can we ensure that municipalities either get
- 18 extra points or lose points for having an asset
- 19 management plan, for having done a cost benefit
- analysis on public/private partnership, for

- 21 ensuring that there are segregated funds for
- 22 their assets?
- 23 So we are looking at doing it -- we
- 24 can do things easily when we can have carrots and
- 25 sometimes we can use a stick, about and we are

- 1 looking at how do we do that through that
- 2 process. So the answer is absolutely yes. It is
- 3 incorporated within our strategy to move forward
- 4 on asset management. And you know, there will be
- 5 more actions in that regards to move forward
- 6 MR. LEN: Hackensack Riverkeeper and
- 7 Bay Keeper. If I heard correctly you said say
- 8 earlier that you were avoiding or trying to avoid
- 9 cooker cutter approach to resiliency. And one of
- 10 the examples that you gave were the situation
- 11 where TMDL might be the best choice or might not
- 12 be the best choice, depending on what you saw on
- 13 the ground. And I wonder how you reconcile that
- 14 with Clean Water Act's requirement, you have a
- 15 TMDL where you don't meet the clean water quality
- 16 standards?
- MS. SIEKERKA: As I read the Clean
- 18 Water Act, it's a TMDL or other measurable
- 19 actions that could lead to meeting the water

- 20 quality standards. Do I have that right, Jill?
- 21 Other enforceable measures, that's how we
- 22 interpret the Clean Water Act, that's how we
- 23 operate and in some regards we don't think TMDL
- 24 is the right answer because the other enforceable
- 25 measures are stronger.

- 1 A SPEAKER: I am with Clean Ocean
- 2 Action. As a follow-up to that question, I am
- 3 wondering what are those enforceable measures
- 4 that you do plan be taking in Barnegat Bay and
- 5 also the Hudson? Before you had indicated that
- 6 the Barnegat Bay wasn't going to be pursued for
- 7 TMDL because there weren't many industrial
- 8 sources, however previously DEP had indicated
- 9 that they weren't pursuing the TMDL despite
- 10 knowing that there weren't many industrial
- 11 sources. And also, it appears that the DPS
- 12 follow Hudson TMDL process, it's been ongoing for
- 13 ten years even though there are industrial --
- 14 could you please explain, you know, how you see
- 15 making up that type of action in both the Hudson
- 16 and Barnegat Bay?
- MS. SIEKERKA: Our first goal, when

- 18 we talk about comprehensive resource management,
- 19 we need to prioritize the water bodies of the
- 20 state, because we can't do everything at one time
- 21 again, we will get nowhere. So when we -- what
- 22 we are doing is trying to establish a matrix that
- 23 will allow us to chart, if you will, our
- 24 stressors for by watershed, give maybe, you know,
- 25 quantitative value to that, qualitative value to

- 1 that to identify where the focus in the State
- 2 needs to be and what are the best remedies
- 3 towards that.
- 4 I think we can pretty much guess
- 5 that some of the water bodies at issue are the
- 6 Raritan, the Hudson, Barnegat Bay, you know, we
- 7 without a heck of a lot of homework I am guessing
- 8 are going to bubble up to the top and we are
- 9 talking about a strategy around Raritan, and we
- 10 have started to tee up discussion around Hudson
- as well and there's been a lot of work done
- 12 around Hudson as well relative to TMDL, there is
- 13 a lot of work going on. In terms of specifics
- 14 right now, I can't say what the other enforceable
- 15 measure would be if we haven't created the
- 16 strategy for that watershed right now.

17	I think the Governor's ten point
18	plan on Barnegat Bay is an example of certain
19	aspects. What are other enforceable measures? I
20	think passing the fertilizer law statewide had a
21	tremendous impact, one we will not see the
22	results for a few years, but you have to start
23	somewhere. And again as long as we can keep
24	showing that we get better, there is no magic
25	bullet when it comes to water, it is impossible.
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1	Being comprehensive and looking at what those
2	types of other enforceable measures could be, may
3	be a better solution than a TMDL.
4	CHAIRWOMAN GOODWIN: Excuse me, this
5	will be the last question so that we can keep on
6	target
7	MR. O'SHEA: This is real easy. I
8	would like to share this presentation with folks
9	from my organization. Are you going to post
10	something like this?
11	MS. SIEKERKA: This is a public
12	hearing. We are open to the public so my power
13	point can be put up on our website or emailed to
14	whoever. I have shared it here in a public

- MR. O'SHEA: That would be wonderful
- 17 any of the earlier information on the guidance
- 18 documents that are going to be coming out
- 19 MS. SIEKERKA: Yes, the guidance
- 20 documents, you know, we are really close to just
- 21 getting in the full legal review right now. We
- are very, very anxious to get them out there
- 23 because folks are starting to rebuild right now,
- 24 and again we want continuing feedback like we
- 25 have been getting all along the way. Thank you

- 1 very much we will make that available.
- 2 CHAIRWOMAN GOODWIN: The Clean Water
- 3 Council also has a website, so we will be posting
- 4 the public aspect of the testimony as well as our
- 5 report on the website.
- 6 MS. SIEKERKA: Before you do your
- 7 brea, I want to let everyone know, again, thank
- 8 you so much for your attention and your
- 9 participation, your input is extremely important
- 10 to our ability to move forward and the
- 11 partnership is extremely important as well.
- 12 Unfortunately, I can't stay for the balance I
- 13 have to attend a funeral at 11:00. My team is

around the room, we get a transcript from today 14 15 and as we have done in the past. The information 16 that we do today is meant to help us go forward. 17 So thank you you for sharing. 18 CHAIRWOMAN GOODWIN: Thank you very 19 much. We will now take a brief break. We were 20 hoping for 15, it will be closer to 10, so we can 21 stay on track. Thank you very much. 22 (Recess) 23 CHAIRWOMAN GOODWIN: Before 24 commencing the public portion, I would ask that 25 the Clean Water Council members please stand. As

- 1 I mentioned earlier we have 17 members of the
- 2 Council; seven of whom represent state agencies
- 3 including Anthony Valente from the Department of
- 4 Labor and Industry, Jim Requa from the Department
- 5 of Community Affairs, Stan Cach, NJDEP; Ferdows
- 6 Ali from the Department of Agriculture; Ella
- 7 Fillapone from the Water Quality Supply Council;
- 8 and Jessica Sanchez from the Delaware River
- 9 Basin Commission. Six of our members are
- 10 nominated from the following organizations; Russ
- 11 Fumari from the NJ Association of Commerce;

12	George	Bakun	from	New	Jersey	Business	and

- 13 Industry Association, Lou Neely, the New Jersey
- 14 League of Municipalities; Anthony McCracken, New
- 15 Jersey Association of Counties; and James
- 16 Cosgrove, the New Jersey Society of Professional
- 17 Engineers who also serves as Vice Chair of the
- 18 Council. Robert Breslin NJ AFL-CIO.
- We also have four citizens of the
- 20 state representing the general public of which I
- 21 am one. Also in this category are Chris Sturm
- 22 from the New Jersey Future; Amy Goldsmith, from
- 23 New Jersey Environmental Federation, and Dan Van
- 24 Abs from Rutgers University. Dan also serves as
- 25 a Vice Chair of the Clean Water Council.

- 1 I wanted to mention this all to you
- 2 because it expresses the diversity from a
- 3 representational perspective on the Council, and
- 4 I think we serve the State well when we are able
- 5 to come to consensus considering the diverse
- 6 interests that in our day lives we represent.
- 7 Thank you.
- 8 With that we will open this up to
- 9 the first speaker is Nicholas Asselta President
- 10 of Aqua New Jersey

11	MR. ASSELTA: Good morning and thank
12	you. First, before I start, I will be very brief
13	just answering some of DEP's questions here.
14	I have been a BPU Commissioner,
15	Assembly Member and Senate Member and probably
16	dealt with five or six commissioners along the
17	line of DEP, and I can tell you that Bob Martin
18	is probably the most effective, knowledgeable and
19	has the best articulation of any Commissioner I
20	have seen in Government, and I have been in
21	Government I guess 18 to 20 years. So even
22	though he is not here, he knows how I feel. I
23	think it's moved the agency light years further
24	then where it was before. So congratulations on
25	him and his team; and the Water Council, thank

how important your job is. We know that it's on
a volunteer basis, and we know that that the time
and effort that you put in is helping not only
the State of New Jersey but every citizen and

you for being volunteers of what you do. We know

- 6 every man, child and person in this particular
- 7 state. So thank you again for your volunteer
- 8 work.

10	Aqua Water, and we appreciate the opportunity to
11	provide testimony here and provided the members
12	of the Council with our testimony
13	The water utility facilities provide
14	a vital and critical infrastructure that supports
15	residents, businesses and organizations
16	throughout New Jersey.
17	Water is essential for health,
18	sanitation, fire safety and economic growth.
19	According to the American Water Works Association
20	report, buried no longer, the cost of repairing
21	and expanding U.S. drinking water infrastructure
22	will top \$1 trillion dollars in the next 25
23	years.
24	According to the EPA estimate, the
25	nation's drinking water utilities need \$335
	67
	67
1	billion dollars in infrastructure investments
2	over the next 20 years for thousands of miles of
3	pipes, as well as thousands of miles of treatment
4	plants, storage facilities and other key assets
5	according to the New Jersey's State Development

As you know I am the President of

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and Redevelopment Plan.

Including in that is New Jersey's

8	needs an	d as we	heard	and	saw h	efore	it's
()	niccus an	u as wc	ncaru	and	saw D	CIOIC.	110

- 9 somewhere around 18 billion dollars, so you can
- 10 understand how important a conference like this
- 11 is in the wake of Sandy, in the wake of some of
- 12 the Federal money and State money that is going
- 13 to be provided, we believe private industry needs
- 14 to play a real strong partnership.
- I wanted to address some of the
- 16 questions that we were asked to address.
- What are the major issues that need
- 18 to be addressed to improve water infrastructure
- 19 resiliency? In our opinion, Acqua New Jersey,
- 20 adequate funding and financing are needed to
- 21 support sustainable infrastructure management and
- 22 renewal through customer water rates and
- 23 structural rate surcharges.
- I think the Assistant Commissioner
- 25 mentioned that that the educational process is so

- 1 important. People need to understand that what's
- 2 underground needs to be replaced and they need to
- 3 somehow come to grips with helping help offset
- 4 the revenue costs here.
- 5 I would like to thank the BPU for

6	addressing major infrastructure improvements.
7	For the first time, through the approval of the
8	distribution system improvement charge or DSIC.
9	DSIC is the first major regulatory policy change
10	in 14 years that addresses the infrastructure
11	issue.
12	The New Jersey Department of
13	Environmental Protection should require greater
14	emphasis on effective utility management
15	practices related to the award of SRF funds for
16	capital improvement projects. Bad behavior and
17	bad practices should not be rewarded with low or
18	no cost funding to provide short term solutions.
19	Regulators should take a harder line
20	to limit the transfer of utility revenues. I
21	think the gentleman out here mentioned that
22	earlier.

- 1 has taught us, in the last year that critical
- 2 need for increased infrastructure investment in

Limits should be placed on the

municipal funds and programs. Super Storm Sandy

transfer of utility revenues to non utility

- 3 all of our utilities, not just water.
- 4 Next question. How can DEP, BPU and

23

24

5	DCA best encourage improved resiliency?
6	Any infrastructure improvements
7	should include a full analysis of its past,
8	present and future potential vulnerabilities.
9	Stop building infrastructure with short term
10	focus and build for long term durability and
11	growth.
12	Next question, how can DEP
13	facilitate "resource sharing" between utilities
14	and local governments before, during and after
15	significant events?
16	In the same spirit as legislative
17	initiatives, to encourage municipal
18	consolidation, we too believe in the
19	consolidation of water and wastewater systems for
20	the purpose of achieving greater efficiencies. I
21	mentioned that in my remarks to the Assistant

1 the use of WARN, the New Jersey Water Agency

Commissioner, there are 600 plus private water

companies, 300 municipal water companies, they

need to be consolidated at some point in time,

the sooner the better. We also must encourage

2 Response Network.

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23

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3	Next question; how can DEP best
4	encourage collaborative efforts between local
5	government? Although DEP has made great strides
6	it should continue to improve its own
7	responsiveness and continue to streamline the
8	permanent review and approval process.
9	DEP takes a broad review whereas
10	municipal government and water infrastructure
11	owners are more on the short term focus. What
12	technical assistance can DEP provide to support
13	long term sustainability, educating the decision
14	makers, political and municipal officials and
15	technical staff on the principles and benefits of
16	effective utility management is required in order
17	to gain full community support for proper rates.
18	The Assistant Commissioner mentioned it;
19	education is so important to the rate payor, the
20	consumer as to what their dollars are going for.
21	Finally, what requirements should be
22	placed on grants and loans for utility rebuilding
23	efforts?
24	Any entity receiving EIT funding
25	must be sustainable and viable, must include

1 effective utility management, and already have or

- 2 should include a rate adjustment to achieve full
- 3 cost pricing.
- 4 With that testimony I thank all of
- 5 you for coming today and understanding how
- 6 important this issue is, and I thank the Water
- 7 Council for their participation. Thank you again
- 8 Thank you.
- 9 CHAIRWOMAN GOODWIN: I apologize, I
- 10 forgot one important housekeeping measure. The
- 11 testimony as noted in our notice of the meeting
- 12 is five minutes, and to the extent that you begin
- 13 to run over, Chris Stern who is sitting in the
- 14 front row will be holding up a sign. When you
- 15 see the one minute sign take that as a note that
- 16 you should begin the process you have one minute
- 17 to wrap up as a courtesy to the others who hope
- 18 to speak today
- The next person who has asked to
- 20 speak was Ronald Anastasio, Assistant Director
- 21 Somerset Raritan Valley. Is he here?
- A SPEAKER: He could not make it
- 23 today.
- 24 CHAIRWOMAN GOODWIN: Okay. Ann
- 25 Berman?

1	(No response)
2	CHAIRWOMAN GOODWIN: I hope I get
3	this right; Dennis Ciemniecki.
4	MR. CIEMNIECKI: Ms. Chairwoman and
5	Clean Water Council Members; thank you for this
6	opportunity.
7	Good morning, my name is Dennis
8	Ciemniecki, and on behalf of the leadership of
9	the New Jersey section of the American Water
10	Works Association; I thank you as it's section
11	chair for the opportunity to contribute to this
12	public hearing sponsored, of course, by the
13	Council.
14	AWWA of New Jersey has 1,750 members
15	who are united in the mission of providing New
16	Jersey residents with safe drinking water.
17	Most of New Jersey's major
18	utilities, both public and invest their own, are
19	active section members, along with engineering
20	and environment professionals, as well as allied
21	industry professionals.
22	AWWA New Jersey is indeed
23	dedicated to the promotion of public health,
24	safety and welfare through the reliable provision
25	of drinking water of unquestionable quality.

than

AWWA our parent organization is the
oldest and the largest education and scientific
association for drinking water professionals.
Founded in 1881, the Association is now more than
50,000 members. AWWA includes public drinking
water departments and authorities, private
companies and individuals engaged in providing
drinking water to the American people.
Recent storms such as Tropical Storm
Irene and Super Storm Sandy have indeed
devastating impacts on water and wastewater
infrastructure in New Jersey.
These events strain the ability of
utilities both large and small to maintain
continuous service through its customers during
the event and in the recovery phase.
It is imperative that effected
utilities must incorporate long term
infrastructure resiliency into their planning,
design, and construction efforts to mitigate the
impacts from future natural disasters. These
efforts must start now and must include flood
protection and the rebuilding in the
rebuilding phase. Flood protection in the

25 rebuilding phase.

1	While it is recognized that the
2	replacement of infrastructures destroyed by the
3	recent storms will receive top priority, it is
4	also recognized that an appropriate levels of
5	redundancy should and must be incorporated in all
6	water and wastewater utility capital asset plans.
7	The engineering standards used in
8	the industry to define the appropriate levels of
9	redundancy are well known. DEP, DCA and BPU
10	should strongly encourage all utilities within
11	their respective jurisdictions to develop long
12	range capital improvement plans that incorporate
13	sustainable financing and rate setting
14	strategies.
15	It is essential to ensure that
16	systems rates and revenues support the full cost
17	of both capital improvements and ongoing
18	operations.
19	In addition, all three regulatory
20	agencies should strongly encourage utilities that
21	do not have current and updated emergency
22	response plans to quickly develop and/or update
23	those plans. DCA should focus also on its review

24	of	municipal	water	and	wastewater	budgets

25 relative to the diversion of revenues and reserve

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1	funds intended toward water and sewer
2	improvements moving off to other municipal
3	functions. Rate payor dollars reflected to
4	improve and renew water strain structure should
5	not be reallocated through the budgeting process
6	to activities unrelated to these utility
7	services.
8	DEP and DCA must also assure that
9	the regulatory approval is streamlined to
10	minimize any delays in the rebuilding process.
11	These regulatory delays can allow damage utility
12	assets to degrade further which may lead to
13	further interruptions in service.
14	Water and wastewater utility
15	services must remain communicational at all times
16	in order to ensure the protection of public
17	health, safety and the environment.
18	Unfortunately, the power grids

serving the State are often severely damaged by

natural disasters like Irene and Sandy. Extended

power outages have immediate and severe impacts

on water and wastewater utilities. Therefore,

19

20

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- back up power supplies are critical to utility 23 24 operations. Diesel and natural gas fuel and 25 electric generators are typically utilized by 76 utilities in the emergency operation mode. However, when the availability and delivery of 2 3 diesel or natural gas is limited alternate procurement and delivery systems must be 5 considered. DEP is commended for their efforts in assisting in procurement and delivery of fuel of 6 7 Super Storm Sandy. 8 DEP and DCA must assist utilities in the investigation and development of alternate 10 fuel sources procurement methods and delivery 11 systems. 12 On behalf of AWWA I am happy to 13 deliver those comments. Thank you very much. 14 CHAIRWOMAN GOODWIN: Is Sandra Cohen here from NJDEP? 15 16 (No response.) 17 CHAIRWOMAN GOODWIN: Michael
- 20 CHAIRWOMAN GOODWIN: Dennis Doll?

DeFrancisci, from PVSC.

(No response.)

18

21	(No response.)
22	CHAIRWOMAN GOODWIN: Jamie Ewalt?
23	(No response.)
24	CHAIRWOMAN GOODWIN: Paul Ferriero?
25	(No response.)
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1	CHAIRWOMAN GOODWIN: Peggy Gallos,
2	Director, AEA.
3	MS. GALLOS: Good morning everyone.
4	I appreciate the opportunity to speak today. My
5	name is Peggy Gallos. I am the Executive
6	Director of the Association of Environment
7	Authorities of New Jersey.
8	We are a trade association that
9	represent 90 water and wastewater solid waste
10	recycling systems owned by the public, as well as
11	75 private sector businesses that support them.
12	We are grateful for this opportunity
13	to comment today. AEA members learned a lot from
14	Sandy. First we learned about the caliber of the
15	people who work in and with the publically owned
16	water wastewater utilities of New Jersey. They
17	are smart and dedicated problem solvers. We also
18	saw dedication and concern among the people of
19	the DEP who worked very hard to get our members

20	the resources what they needed.
21	Sandy also confirmed what we already
22	knew; which was that well managed and up-to-date
23	systems stand a better chance against storms.
24	I just wanted to skip some
25	information about damage that I had, that I think
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1	has been well spoken today. I wanted to talk
2	about a few of the adaptations and innovations
3	that I think helped get through Sandy.
4	Plants like Rahway Valley Sewerage
5	Authority and joint meetings of Essex and Union
6	remained in authorization and released no
7	untreated effluent, mainly because of their
8	on-site cogeneration facilities.
9	It's also important to note that
10	dedicated personnel risk their own safety to stay
11	in at these plants even as flood waters rose and
12	they had to take to roofs and lofts to stay safe
13	and set up generators scavenged fuel and
14	undertook repairs at the earliest moments.
15	In many instances planning
16	preparation and innovative design done ahead of

17 time meant damage was not as severe as it might

- 18 have been.
- The Hoboken H1 wet weather pump
- 20 station which was put into service 2011 is in the
- 21 hardest hit part of Hoboken, and it remained
- 22 operating. Its pump and screening chamber of low
- 23 grade and electrical generator communicated with
- 24 the treatment plant. Because of that well
- 25 designed pump station flooding was eased 48 hours

- 1 sooner then it might otherwise have been.
- The South Monmouth Regional Sewerage
- 3 Authority, Seagirt Pump Station was one of only
- 4 three of the pump stations undamaged. The
- 5 primary electric equipment are housed in an
- 6 elevated enclosure adjacent to the wet well and
- 7 dry well. An expendable portable generator and
- 8 transfer switch kept its pump going and a
- 9 sacrificial and electrical control system
- 10 operated the pumps. SMRSA operations staff were
- able to move the mobile unit, the guts of the
- 12 pump station, so to speak, out of harm's way
- 13 before the storm.
- 14 Five Rahway Valley Sewerage
- 15 Authority staff members staved off disaster by
- 16 performing a "modified blackstart" on its Co-Gen

17	system.
18	Initially, Rahway Valley was able to
19	operate its Co-Gen system. After several days,
20	however, a large-proces air blower tripped a
21	circuit and caused the Co-Gen to fail.
22	RVSA switched to two 2.2 MW diesel
23	generators, but 36 hours later, those generators
24	started to fail too.
25	The "modified black-start" fooled
	80
	80
1	the Co-Gen system into kick-starting, something
2	that it was not designed to do. This kept the
3	plant running in island mode for almost two weeks
4	after that.
5	We offer these examples for context
6	while many things did go wrong, many things also
7	went right.
8	With regard to the questions asked
9	by the Council, we offer the following specific
10	comments. Lack of data was a significant problem
11	and that has also been mentioned.
12	I think the State should consider

developing a system whereby critical contact and

14 logistical information is confirmed prior to some

15 threat	enea (event	or	storm	or	as	soon	thereaf	tei
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- 16 as possible. Confirmation of cell phone numbers,
- 17 personal cell phone numbers, ancillary facilities
- 18 such as pump station, meter numbers and account
- 19 numbers associated with power supply should all
- 20 be confirmed on an event basis.
- 21 It was troubling at that time, that
- 22 the wastewater sector was not considered by the
- 23 ROIC as a critical sector until DEP leadership
- 24 intervened. This is immediately after the storm
- and it is encouraging since Sandy, OHSP has been

- 1 become very aware of wastewater and is making
- 2 efforts to include more wastewater in its
- 3 planning.
- 4 Many treatment plants that did not
- 5 suffer damage but lost power operating on standby
- 6 generators on the verge of having to shut down
- 7 because of lack of fuel and threaten to discharge
- 8 raw sewerage.
- 9 New Jersey DEP should move ahead
- 10 expeditiously with its asset management pilot, so
- 11 it can collect data, and we are happy to hear
- 12 that asset management has become such an
- 13 important part of the response to Sandy today.

14	Two AEA member organizations were to
15	have been part of the pilot and they stand ready
16	to move forward and AEA and other groups are
17	willing to partner with DEP to make that pilot
18	happen.
19	The State needs to continue to
20	facilitate the creation of a better Plan B for
21	sludge disposal. New Jersey did manage to take
22	care of its own sludge despite the fact that PVSC
23	was disabled. This is because they quickly sized

up the problem after the storm and wastewater

facilities that were not severely damaged such as

Somerset-Raritan Valley Sewerage Authority, Stony

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Brook, Mount Holley and Two Bridges they all
provided backup and took the sludge.
A number of good options that have
been suggested so far should be fully examined
they include allowing solid waste incinerators to
take sludge under certain circumstances
permitting landfills with liners at leachate

control systems to accept sludge in emergencies.

Allowing to temporary open air sludge storage at

plants that have room. Creating a standing list

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12	of provider of mobile sludge treatment units that
13	could be drawn on in an emergency.
14	Related issues include revising
15	diesel storage limits to allow spare fuel storage
16	capacity, exploring new technologies and systems
17	to treatment, such as some of the technology I
18	just talked about. And finding ways to keep
19	existing incinerators in operation despite
20	looming tougher federal emission standards.
21	There is broad agreement that
22	detailed sludge management backup plans would
23	make sense, but that a one-size-fits-all would
24	not.
25	We are all aware of the problems
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1	encountered with a county-based approach to solid
2	waste management planning.
3	One more point, regarding asset
4	management. We urge CWC to continue to press for
5	the memorial of disingentives to muonen
	the removal of disincentives to proper
6	infrastructure management, such as allowing
6 7	

9 and wastewater systems.

Just this caution with regard to

11	dissolving utility authorities; certainly
12	communities have the right and should determine
13	their own futures, but dissolution of some
14	utilities authorities is not necessarily being
15	done to improve the way the water infrastructure
16	is managed. It allows money to be diverted away
17	from the wastewater infrastructure. So that is
18	an important part of the conversation that
19	several speakers have called upon to have.
20	I have more but I think I will stop
21	here. Thank you very much for the opportunity to
22	speak today and look forward to working with you.
23	CHAIRWOMAN GOODWIN: We appreciate it
24	and appreciate your written testimony we
25	certainly will consider it.
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1	Jim Glozzy has indicated he will
2	submit written comments. Is he here?
3	(No response.)
4	CHAIRWOMAN GOODWIN: Rich Harding?
5	(No response.)
6	CHAIRWOMAN GOODWIN: Dennis Hogan?
7	(No rasponsa)

CHAIRWOMAN GOODWIN: Trevan Houser?

9	(No response.)
10	CHAIRWOMAN GOODWIN: Leigh Jones?
11	(No response.)
12	CHAIRWOMAN GOODWIN: William Kibler?
13	(No response.)
14	CHAIRWOMAN GOODWIN: Andrew Krincun?
15	(No response.)
16	CHAIRWOMAN GOODWIN: Suzanne
17	Chiavari?
18	MS. CHIAVARI: Good morning everyone.
19	On Behalf of New Jersey America Water, I am
20	Suzanne Chiavari, Vice President of Engineering.
21	I would like to thank the Council for holding
22	this hearing, soliciting comments from the
23	public, it is A very important issue for the
24	industry and very good to get the feedback.
25	Our primary goals as water and
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1	wastewater utilities are to protect public health
2	and ensure service continuity. Service
3	reliability has been and will always be one of
4	our key perimeters in the planning and design of
5	all water and wastewater systems.
6	Water utility customers generally do

7 not lose service during storm events because of

- 8 our system designs. They are designed to provide
- 9 continuous service under a wide range of events.
- 10 We build water distribution storage tanks to
- 11 provide buffers. We install standby power
- 12 capabilities that power critical facilities,
- 13 should we lose utility power. We build critical
- 14 assets above 100 year flood elevations and/or we
- 15 add flood protection for the older facilities
- 16 that are flood at risk. Nonetheless, what we have
- 17 learned recently is that weather patterns are
- 18 combining with the issue of aging infrastructure
- 19 and that's causing us to reevaluate our
- 20 traditional planning approach, and our
- 21 traditional design criteria.
- The design standards that we have
- 23 used look at supplies, look at treatment plants,
- 24 pump stations and tanks; all taken together to
- 25 achieve a level of zero service halogens -- the

- 1 so-called new norm has led us to look at
- 2 traditional liability and emergency planning in a
- 3 world that needs speeded recovery and resiliency
- 4 from much more widespread events.
- 5 This is an action that we are taking

6	at New	Jersey	American	because	of	what	we	endured
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- 7 through Hurricane Sandy, Hurricane Irene. We are
- 8 reevaluating our design standards and our
- 9 planning standards. And I encourage every
- 10 utility to do that; whether they were impacted
- 11 directly for those hurricanes or not.
- I am going to address eight key
- 13 learning points that I'd like to share with the
- 14 Council, from our recent storm events and our
- 15 after-action learning. Those are around
- 16 resources, asset management, planning and risk
- 17 assessment, updating planning and design
- 18 criteria, the need for communications and the
- 19 need for funding options.
- Let me start with the first key
- 21 learning point for us; New Jersey America Water
- 22 is a subsidiary of America Water, so we bring a
- 23 tremendous amount of resources to the table. Over
- seven thousand employees across the country, 850
- 25 in New Jersey alone. During the recent storm

- 1 events we were able to leverage all of that
- 2 knowledge, our key vendor relationships, our
- 3 ability to get materials here quickly,
- 4 relationships with contractors. Those were all

5	kev	to	having	this	wide	network	of	resources	that

- 6 really helped us respond very quickly to the
- 7 various storm events. And I would even encourage
- 8 the State agencies to think about how we can help
- 9 utilities of all sizes develop this network;
- 10 whether it is developing a template for an inner
- 11 utility agreement similar to what the power
- 12 industry uses, where they are very visible,
- 13 bringing crews from out-of-state to make repairs.
- We also encourage state agencies to
- work with utilities to establish a priority
- 16 system with electric utilities for power
- 17 restoration. The loss of power is very critical
- 18 to us, and the restoration power is very critical
- 19 to us. So developing a priority system with
- 20 electric utilities is really crucial.
- We would also encourage State
- 22 agencies to look at establishing above water
- 23 distribution network. You can design your
- 24 systems for zero outages, but occasionally
- 25 something happens and you need to be able to move

- 1 bottled water around, and we have done that
- 2 ourselves very successfully, but obviously we are

- 3 not a supermarket or food and beverage industry,
- 4 bottled water industry, so any help with that
- 5 would be greatly appreciated.
- 6 I also encourage DEP to continue to
- 7 maintain and update the asset information that
- 8 was gathered during Hurricane Sandy. I know that
- 9 we provided quite a lot of information on
- 10 generators, power accounts, and we need to keep
- 11 all that information up-to-date.
- Michelle spoke about a regional
- approach, and we absolutely endorse that working
- 14 through the county OEMs we found that to be very
- 15 successful in Monmouth and Ocean County.
- We also need to take care of our
- workers, not just all of the pipes and pumps and
- 18 electrical gear, but we need to take care of our
- 19 workers. We found that you know, families of
- 20 utility workers have a very significant burden.
- 21 The workers are relied on to respond immediately
- 22 to events. They are often working long hours,
- 23 away from home, typically they may have flooding
- 24 at their own house, they may have trees come
- down, we had trees come down on employees' cars

1 and the employee is trying to juggle many, many

- 2 different things. So family resource center or a
- 3 hotline to help deal with all of those issues
- 4 would be greatly appreciated as well.
- 5 The other areas I will just touch
- 6 very briefly on and then we will provide written
- 7 comments. We talked earlier about our number of
- 8 speakers talked about asset management systems
- 9 and basically the better you are prepared, the
- 10 better the outcome. Planning and risk
- 11 assessments are critical. Reassessing our
- 12 planning criteria are critical. Communication is
- 13 critical, your customers deserve to know what is
- 14 going on.
- We found that through using social
- 16 media, Twitter, Facebook, that helps get the
- 17 customer, the information that we need along with
- 18 call centers.
- 19 Data communication also very
- 20 critical, very reliant on cell networks and power
- 21 to move data around. So that is another issue to
- 22 take a look at.
- We will submit the remainder of
- 24 comments. Two last things on the area of
- 25 funding; we learned that not only water but

1	wastewater is a critical asset in any of these
2	emergency events and the resiliency of
3	wastewater systems are equally as important to
4	the water systems, and when we look at the ASC
5	report card, the wastewater systems had a lower
6	grade than the water systems, and we really need
7	to have investments for wastewater facilities.
8	I would encourage DEP and EPA to
9	make state revolving loan funds available to
10	investment wastewater utilities as well as what
11	the program has for drinking water.
12	We also encourage DEP to work with
13	BPU to expand the Distribution Improvement
14	Service Charge Program to water infrastructure to
15	the wastewater center as well.
16	You heard Michelle talk about
17	reducing INI and how that plays into it. With
18	that I will thank you for the opportunity to
19	address the Council this morning.
20	CHAIRWOMAN GOODWIN: Manuel Lazerov
21	(No response.)
22	CHAIRWOMAN GOODWIN: Chris Len?

MR. LEN: Thank you. I am Chris

Riverkeeper and New York/New Jersey Baykeeper.

Len. I am staff attorney for Hackensack

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1	Thank you for having the hearing
2	today and I would like to point out, first of
3	all, that a lack of spending in New Jersey, storm
4	water infrastructure in New Jersey during state
5	of emergency on days when there is not a huge
6	super storm, and it's something that causes a
7	great deal of injury to our state everyday not
8	everyday, but most days of the year, many days of
9	the year, and it compounds it when we have a big
10	whether event that we have like Irene.
11	Storm water infrastructure in our
12	state has badly deteriorated. Every year
13	according to the EPA, 23 billion gallons of raw
14	sewerage go into New Jersey waters to combine
15	sewer overflows, that is without a storm.
16	Our permit in New Jersey has no
17	monitoring requirements, it has no technology
18	effluent limits and no water quality effluent
19	limits, has no notice of public overflows. So
20	all of that goes into the water every year and we
21	don't know when the water is safe to swim in and
22	when it is not.
23	New Jersey, as United States has the
24	greatest need for storm water management

25 structure. More than two-and-a-half times the

- 1 second state in terms of need in actual dollars.
- 2 Despite being the 47th largest state in the Union
- 3 we have the number one infrastructure for storm
- 4 water requirements in the Union by two-and-a-half
- 5 times.
- 6 We have the second greatest need in
- 7 actual dollars for CSO correction, and that is, I
- 8 imagine behind New York, which New York City
- 9 alone is gigantic as compared to our state and
- 10 yet, we have the second biggest problem in the
- 11 nation.
- We have the third worst need for
- 13 centralized wastewater treatment. The fourth
- 14 secondary and advanced wastewater treatment, the
- 15 fourth non-point pollution control points which
- 16 again is remarkable given the size of our state,
- 17 a state like New Jersey has a greater need than a
- 18 state like Nebraska.
- The key is, and I think has always
- 20 been for New Jersey to start. We are always
- 21 putting things off. We have a regulatory scheme
- 22 that makes it cheaper to do nothing then it does
- 23 start taking steps. We have combined sewer

- 24 overflow permit that basically nothing of
- 25 combined sewer operators, and has simply been

- 1 cheaper in many cases, for municipalities,
- 2 regulated entities in the state to simply not
- 3 start.
- 4 Portland, Oregon where I went to law
- 5 school you might know it as a place that rains
- 6 quite a bit. I was just there and it rained the
- 7 whole time. They have combined sewer overflows
- 8 in Portland, and in 1991 they began a plan to get
- 9 rid of them and over 20 years they built large
- 10 gray infrastructure projects, and last year they
- 11 had no overflows, not one, because in 1991 they
- 12 started and here, in 2013 we are hoping that the
- 13 DEP starts addressing its combined sewer overflow
- 14 problem by addressing problems that have real
- 15 measure. So far that hasn't happened. By the
- 16 end of the week maybe we will have our first.
- 17 It is not just an absence of
- 18 regulation that causes these things or really
- 19 rather putting in a presence of regulation
- 20 wouldn't simply fix them. We have to allow the
- 21 people of New Jersey to be rationale economic
- 22 actors, so they can can address these problems in

- 23 the market in an efficient way. You don't fix
- 24 problems that it doesn't cost you anything to
- 25 have, but it does cost you something to fix.

1	We need to incentivize measures to
2	address these problems. One of the great
3	developments that has occurred since Portland
4	began its project and that you can see most
5	clearly in New York, probably Philadelphia, is
6	that green infrastructure offers a lot of promise
7	to do these things more cheaply. New York had a
8	treatment facility that needed it to build,
9	estimated that it would cost over ten million
10	dollars, and by thinking outside normal
11	constraints, and coming up with new ideas, they
12	found that they can get better or equal water
13	treatment and that is something again that they
14	have started to do. In New Jersey, though. You
15	don't even know green infrastructure is so
16	inexpensive as opposed to large infrastructure
17	facilities, you don't do that because why spend a
18	small amount on green infrastructure. If you
19	don't have to spend any money at all.
20	So what New Jersey should do to

- 21 begin the process of developing green
- 22 infrastructure that will make events like Sandy
- 23 less severe and make the day-to-day problems of
- 24 combined sewer overflows diminished, is that they
- 25 should incentivize green infrastructures by

- 1 making it cheaper, but more importantly perhaps,
- 2 shift the costs that have been externalized from
- 3 the people who provide storm water, and put it
- 4 into the rivers and wastewater stream plants back
- 5 to the people who produce the storm water. And
- 6 there has been some promising legislation
- 7 introduced in the New Jersey Statehouse.
- 8 One, is that Assemblyman Eustace has
- 9 introduced a Bill that would give tax credits for
- 10 developing storm water capture systems, that
- would be helpful. Another is that Senator Smith
- 12 has introduced a Bill that would create a storm
- 13 water utility, and in that instance if a
- 14 municipality were to create storm water utility
- under Senator Smith's Bill, they would be able to
- 16 give a cost signal to people with large parking
- 17 lots could have relatively small steps to reduce
- 18 the amount of flow off the parking lots. Green
- 19 infrastructure, relatively inexpensive. And I

20	think one of the biggest problems that we have is
21	there is a lack of notification when there is a
22	sewer overflow. Right now you don't know if it
23	is safe to go swimming in my bodies of water
24	because if there is a combined sewer overflow,
25	you don't know whether it happened necessarily
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1	and for how long it lasts. There is a beach in
2	Perth Amboy that has the levels on it that is not
3	safe, particularly on days when there is an
4	overflow and people should be made aware of that.
5	So we think that the best way to
6	address problems like Sandy and Irene is to begin
7	addressing the problems like what happens when it
8	rains later this week and New Jersey and DEP can
9	start doing that now. Thank you.
10	CHAIRWOMAN GOODWIN: Bridget McKenna?
11	(No response.)
12	CHAIRWOMAN GOODWIN: Tony Macdonald?
13	(No response.)
14	CHAIRWOMAN GOODWIN: Audrey Miller?
15	(No response.)
16	CHAIRWOMAN GOODWIN: John Miller?

(No response.)

18	CHAIRWOMAN GOODWIN: Meishka
19	Mitchell?
20	(No response.)
21	CHAIRWOMAN GOODWIN: Dennis Palmer?
22	(No response.)
23	CHAIRWOMAN GOODWIN: Glen Petrauski?
24	(No response.)
25	CHAIRWOMAN GOODWIN: David Pringle?
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1	(No response.)
2	CHAIRWOMAN GOODWIN: Richard Risoldi?
3	(No response.)
4	CHAIRWOMAN GOODWIN: Sari Rothrock?
5	(No response.)
6	CHAIRWOMAN GOODWIN: John Rotolo?
7	(No response.)
8	CHAIRWOMAN GOODWIN: David Shadle?
9	(No response.)
10	CHAIRWOMAN GOODWIN: Captain Bill
11	Sheehan?
12	(No response.)
13	CHAIRWOMAN GOODWIN: Deborah Shuff?
13	
15	(No response.) CHAIRWOMAN GOODWIN: Emad Sidhum?
16	(No response.)

17	CHAIRWOMAN GOODWIN: Carol Storms?
18	(No response.)
19	CHAIRWOMAN GOODWIN: Jeff Tittel?
20	(No response.)
21	CHAIRWOMAN GOODWIN: Steve Trainor?
22	(No response.)
23	CHAIRWOMAN GOODWIN: Heather Saffert?
24	MS. SAFFERT: Good morning. I am
25	Heather Saffert, I am a staff scientist with
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1	Clean Ocean Action who represents over 135
2	organizations as well as concerned businesses and
3	citizens. And I want to thank you again for the
4	opportunity to testify on improving the
5	resilience of our water infrastructure.
6	Not only has a New Jersey water
7	infrastructure been subject to extreme storms,
8	and also subject to inadequate planning and
9	financing to protect, maintain and upgrade these
10	systems. As Chris said, you know, we have a CSO
11	problems, we have aging infrastructure leaking
12	where we have infiltrating groundwater into the
13	sewer system and probably leaking drinking water
14	and sewer system as well.
14	and sewer system as well.

15	We have high costs for these
16	problems and it resulting in both water quality,
17	wasting water resources and flooding impacts that
18	need to be addressed. Hopefully the recent storms
19	as has been mentioned will be bring attention and
20	support needed to improve the drinking, storm
21	water and wastewater systems and the resiliency.
22	To best encourage or improve
23	resiliency we need to conduct hazard risk
24	analysis in light of updated science, on the risk
25	posed by flooding, storm surge, and as well as

predicted sea level rise, which is now greater than was previously realized only a year ago. 2 3 As part of this risk assessment, New 4 Jersey needs to work together with municipalities, counties, utilities and companies to map out sewer drinking water and storm water 6 lines that have not been previously electronically mapped into DGPIS databases and 8 these need to be ground trooped where necessary. 10 This has been a major problem with trying to find 11 out about what the status has been with these 12 infrastructure problems after the storm and it is

also important that we know the age and status of

- 14 these lines and this needs to be documented.
- The mapping should be shared and be
- 16 put this place for updating. A plan needs to be
- 17 put in place for updating. These tools will prove
- 18 useful for identifying and assessing
- 19 infrastructure, where these tools are already in
- 20 place, they help in reducing time communicating
- 21 issues and concern. We also still need as Len
- 22 mentioned today, a clear and straightforward
- 23 communication plan to be put in place so that
- 24 people know who to be contacting during
- 25 emergencies, whether power outages exist or not.

- 1 And this information all needs to be publically
- 2 available. Although some of the major problems
- 3 in sewer release in response to Sandy reported,
- 4 it has been very challenging to get specific
- 5 information on more minor, serious infrastructure
- 6 problems.
- 7 This information is vital to warn
- 8 the public on potential health and flooding risks
- 9 and ensure that the repairs are made.
- We have been hearing from citizens
- and others, you know, about continued problems

12	with	storm	water	and	sewer	line	prob	lems	in

- 13 certain communities, and we have been hearing new
- 14 stories. So it is very helpful today to have
- 15 this meeting and get some more updated
- 16 information from DEP, but we need more
- 17 information to the public and in a more timely
- 18 fashion, you know, following emergency events.
- 19 There's also concerns, you know, we
- 20 understand that most of the ocean dischargers did
- 21 stay on line during the storm, however, it looked
- 22 like some of the facilities were flooded based on
- 23 the storm surge maps produced, but we still need
- 24 to get more information about the status of these
- 25 facilities.

- 1 So it's technical standards need to
- 2 be developed and updated as mentioned previously
- 3 and we also need the staff resources to evaluate
- 4 and ensure that these are met going forward.
- 5 Again we are very concerned about the age of some
- 6 of these systems, we heard about the Middlesex
- 7 Utility Authority that they actually had to find
- 8 retired engineers to come in and help with some
- 9 of the systems, because some of the technologies
- 10 were so old that the engineers were not familiar

11	• . •	1		C.	. 1	1		. 1		•
11	with	how	to	†1X	them	and	SO	there is	a	serious

- 12 problem that really needs to be addressed. It is
- 13 important that pump stations, lines and discharge
- 14 pipes are flood proofed, as DEP mentioned today,
- and that a variety of strategy should be
- 16 evaluated when -- to protect the facilities as
- 17 well as to protect the environmental area that
- 18 they are in.
- 19 To facilitate resource sharing we
- 20 need to investigate and provide financial
- 21 incentive to encourage sharing and develop MLU's
- 22 between counties and maintenance for tools and
- 23 equipment. We have heard that there has been
- 24 some counties to have resources, but are not able
- 25 to share because of financial issues.

- 1 To provide for the long term
- 2 stability of long term operations, the State
- 3 needs to release the protective water supply
- 4 plan, invest in repairing and upgrading
- 5 infrastructures mentioned, support long term
- 6 funding mechanisms to support broader structure
- 7 investment, including you know, beginning
- 8 conversations about storm water utilities, so

- 9 that we can have environmentally protected storm
 10 water planning process in place.
 11 We need to increase water
- 12 conservation beneficial reuse of water as well as 13 update and strengthen the storm water and coastal
- 14 storm regulations.
- We also need to restore funding in the natural infrastructure; green acres, blue acres, farmland preservations all need more
- 18 funding.
- We need to create tax incentives to
- 20 encourage volume adoption of rain, like rain
- 21 barrels and green roofs. We need to develop
- 22 special area management plans for Barnegat Bay
- 23 and the cost that have meaningful participation,
- 24 pilot public -- we have been very disappointed
- 25 with the process so far and we hope that these

- 1 efforts can be revitalized in a way that has
- 2 meaningful results.
- Finally, as mentioned previously, we
- 4 need to strengthen and enforce NJDEP permits,
- 5 which are not allowed to degrade water permitting
- 6 by alot, including the individual permits for
- 7 CSO's.

8	So again, improving the status is
9	critical for water conservation, protecting the
10	public health, and improving water quality and
11	reducing flooding; all of which improves the
12	quality of living and our economy.
13	We need to, you know, invest in
14	green infrastructure, and protect our natural
15	infrastructure. Thank you.
16	CHAIRWOMAN GOODWIN: Martin McHugh.
17	MR. McHUGH: Thank you for the
18	opportunity to present this testimony today and
19	more importantly for recognizing the opportunity
20	to increase the resiliency of building
21	infrastructure to a green infrastructure
22	approach.
23	My name is Martin McHugh, I am the
24	representative for The Conservation Fund in New
25	Jersey, but I am also a resident of Manasquan,
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- 1 New Jersey. So I saw firsthand with super storm
- 2 Sandy the need for green infrastructure approach
- 3 going forward.
- 4 The Conservation Fund is a national
- 5 land trust and sustainability nonprofit based out

6	of Arlington, Virginia.
7	In the last 30 years The
8	Conservation Fund has protected over seven
9	million acres of land and water in all 50 states,
10	these range from the park down the street to
11	historic battlefields, wild areas and
12	destinations of all kinds; including the Flight
13	Memorial, and just last month the first monument
14	to the State of Delaware.
15	The Conservation Fund is chartered
16	under the dual mission of protecting our nation's
17	land and water resources, and promoting
18	sustainable economic development.
19	In addition to land preservation,
20	The Conservation Fund endorses a balanced
21	approach for smart area in planning and a
22	sustainable development, to design or build
23	assets so they are in concert with our natural
24	assets. We call this strategic conservation

1	Our green infrastructure approach is
2	not just windmills, it's not solar panels or rain
3	gardens, it is a process. It is a process that
4	guides the construction of built or gray

25 process the Green Infrastructure approach.

- 5 infrastructure, if you will, our homes, our
- 6 businesses, roadways and utilities, which we are
- 7 talking about today, together with the
- 8 restoration of the green infrastructure; the
- 9 waterways, the wetlands, the parks and forests,
- 10 our beaches and dunes. Green infrastructure is a
- 11 process that can be undertaken at state, regional
- 12 community or even watershed levels; and it is a
- 13 process that educates participants on the links
- 14 between our built and green infrastructure, and
- 15 it shows how these connections provide benefits
- 16 or services to our built assets.
- By analyzing these connections, we
- 18 can identify opportunities for designing well
- 19 integrated systems by increasing the function
- 20 value of both the built, and the natural assets.
- 21 And it's clear that we restoring our natural
- 22 assets increases their capacity to protect the
- 23 built infrastructure. Restoration, increases
- 24 resiliency. It is a necessity for sustainable
- 25 ecological systems, for vibrant communities, and

- 1 for a healthy economy, and there is no better
- 2 example of the value of importance for the

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9	meaniny,	mgn	Tuncuc	nnng	Orccii	Infrastructure

- 4 network than what happened after the super storm
- 5 Sandy, and during the storm.
- 6 So since super storm Sandy the
- 7 Conservation Fund has been working in a number of
- 8 New Jersey communities to provide information to
- 9 benefits of green infrastructure, and for the
- 10 rebuilding process, to truly restore the shore
- and build back more resilient communities.
- We do this with strategic partners
- 13 with Monmouth University and and Dewberry
- 14 Engineers. We are lining up funding for green
- 15 infrastructure planning and identifying green
- 16 infrastructure demonstration projects along the
- 17 coast.
- Our National MOU, Memorandum of
- 19 Understanding with the Army Corps of Engineers
- 20 provides for cooperative approach to promote
- 21 green infrastructure flood protection, storm
- 22 water mitigation and sustainable development.
- 23 And through this MOU, days after the storm I led
- 24 tours of impacted coastal areas for Lieutenant
- 25 General Bostick, is the Commander of the Army

1 Corp of Engineers, and other officers and

- 2 Assistant Commissioner Kasinski was there as well
- 3 and we began a dialogue of the green
- 4 infrastructure for the coastal rebuild on those
- 5 days.
- 6 The Conservation Fund has worked
- 7 with numerous other partners from environmental
- 8 and conservation groups to cities, counties,
- 9 major utilities and leaders, to undertaking green
- 10 infrastructure planning and implement assessments
- 11 throughout the country. We're currently
- 12 completing green infrastructure plans in Chicago,
- 13 Houston, Los Angeles, and when I talk about hard
- 14 scape infrastructure area, Los Angeles was a big
- 15 challenge.
- 16 Following the Mississippi River
- 17 floods of 2010, The Conservation Fund completed a
- 18 Green Infrastructure for Nashville and Davidson
- 19 County Tennessee with the primary focus on flood
- 20 control and flood water retention. I have a copy
- 21 of that plan up here if you'd like to see it at
- 22 some point if anybody in room wants to see it
- 23 afterwards.
- In terms of water utilities, the
- 25 Conservation Fund partnered with the Milwaukee

- 1 Metropolitan Sewage District on its Greenseams
- 2 program. GreenSeams was established through the
- 3 Green Infrastructure process to address problems
- 4 associated Milwaukee's combined sewer overflow
- 5 system.
- 6 A key component is identifying lands
- 7 containing critic hydric soils, then work to
- 8 preserve and restore those lands for the water
- 9 management and retention. The Green
- 10 Infrastructure plan covered 440 square miles,
- 11 encompassing 4 watersheds, 4 counties, 28
- municipalities and 1.1 million customers
- 13 resulting in over 2200 acres of preserved land,
- 14 380 acres of restored, including 14 miles of
- 15 stream buffer and effectively removed thousands
- 16 of gallons of water from the sewer, hundreds of
- 17 thousands of water from the sewer system and
- 18 reduced future flood risks, increased flood
- 19 management cost, improved wild habitat, property
- 20 values and overall quality of life.
- There is no doubt that green
- 22 infrastructure approach can be applied to improve
- 23 the resilience of the water structure of New
- 24 Jersey, while improving the water quality at the
- 25 same time.

1	As I stated at the outset, The
2	Conservation Fund is working hard with partners
3	in New Jersey to provide the framework and the
4	tools for a coastal rebuild that directly engages
5	partners in the plans for more resilient
6	communities. It is a community based, community
7	driven process that incorporates input across all
8	stakeholder groups, to retain community
9	character, which the Governor is concerned about.
10	The process also educates partners
11	and builds champions for the green infrastructure
12	plans, so that they do not sit on the shelf.
13	The Conservation Fund intends to
14	provide written testimony beyond this
15	introductory statement that I am giving today to
16	respond directly on the topics outlined in your
17	request for testimony, but in closing bullet six
18	of the request asks how DEP can encourage the use
19	of green infrastructure to protect water quality
20	and protect water infrastructure resiliency?
21	The Conservation Fund respectfully
22	suggests that DEP review the projects that we
23	have completed on our website,
24	www.ConservationFund.org.
25	The Conservation Fund is also

- 1 available at the Department's availability to
- 2 meet with any of the department programs or staff
- 3 to show them how to do this. And lastly, since
- 4 the late 90's we have been training partners,
- 5 state agency, environmental agency partners,
- 6 Federal agency staff, state county planners,
- 7 municipality, biologists, developers and NGO's in
- 8 the green infrastructure approach.
- 9 So in addition to holding workshops
- around the country, we provide green
- 11 infrastructure courses at the the National
- 12 Conservation Training Center in Shepardstown,
- 13 West Virginia. The next course is offered on May
- 14 20th, and you can find a link to register for
- 15 that on our website.
- We work with State agencies on
- 17 registration fees, as we know, as I know
- 18 especially having worked here for 25 years, the
- 19 State is strapped for training and funding, so we
- 20 will work with you to register, anybody who wants
- 21 to come. Thank you for your time and commitment
- 22 to this. We really appreciate it.
- 23 CHAIRWOMAN GOODWIN: Is there anybody

24 who else who would like to testify?

25 (No response.)

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1	CHAIRWOMAN GOODWIN: Thank you, we
2	have heard some really great information today,
3	the process is that we now will go back as a
4	Council digest the information. We will receive
5	a copy of the transcript. We will receive copies
6	of all of the written testimony.
7	If anybody would like to supplement,
8	they are welcome to do so within the next 30 days
9	and then we will prepare a written report to the
10	Commissioner. Our written report will appear on
11	the Clean Water Council website.
12	Thank you so much for everything,
13	especially the interesting comments on green
14	infrastructure. I will tell you that had we held
15	our originally planned public hearing in November
16	of 2012, that would have been our topic and
17	perhaps that will be the source of a future topic
18	for the Clean Water Council. I thank you, and we
19	can now consider this hearing officially closed.
20	(Whereupon the hearing was closed at
21	12:30 p.m.)

1	CERTIFICATE
2	I, LINDA L. PSYLLOS, a Certified Court
3	Reporter, License XI 1184, and Notary Public of
4	the State of New Jersey, do hereby certify that
5	the foregoing is a true and accurate transcript
6	of the testimony as taken stenographically by and
7	before me at the time, place and on the date
8	hereinbefore set forth.
9	I DO FURTHER CERTIFY that I am neither a
10	relative nor employee nor attorney nor counsel of
11	any of the parties to this action, and that I am
12	neither a relative nor employee of such attorney
13	or counsel, and that I am not financially
14	interested in the action.
15	
16	
17	
18	Notary Public of the State of New Jersey
19	My Commission Expires July 19, 2017
20	

21 Dated: April 29, 2013