

Rockport Community Resilience Workshop May 29, 2018 Summary of Findings



Photo Credit- https://www.flickr.com/photos/mararie/

Acknowledgements

The project was conducted by the Metropolitan Area Planning Council (MAPC) with funding from Executive Office of Energy and Environmental Affairs. Special thanks to Chief McMorrow for initiating the program for the Town, to the Rockport Police and Fire for providing and arranging the workshop space, to Kevin Sweet, Town Administrator, for managing the process, and to all the participants who enthusiastically and diligently worked to create a more resilient Rockport

METROPOLITAN AREA PLANNING COUNCIL

Officers

President Keith Bergman
Vice President Erin Wortman
Secretary Sandra Hackman
Treasurer Taber Keally
Executive Director Marc D. Draisen

Principal Planner Sam Cleaves

GIS/Data Analysis

Elise Harmon, Eliza Wallace, Alaa Mukahal
Workshop Facilitators

Martin Pillsbury, Elise Harmon, Darci

Schofield

Town of Rockport

Acting Town Administrator Mitch Vieira

CORE TEAM MEMBERS

Mitch Vieira

Joe Parisi

Geralyn Falco

Mark Schmink

Bruce Reed

Rich Souza

Kirk Baker

Town Administrator

Director of Public Works

Conservation Commission Agent

Police/Emergency Management

Public Works

Public Works

Planning

Citation

Metropolitan Area Planning Council. 2018. Town of Rockport Municipal Vulnerability Preparedness Program. Community Resilience Building Workshop Summary of Findings. Rockport, Massachusetts.

Overview

In the last five years, Massachusetts has experienced increasingly more frequent and severe weather events. Record-breaking snowfall in 2015, an extensive and severe drought in 2016, the warmest year on record in 2017, and four Nor'easters in one month and flooding comparable to the Blizzard of 1978 in 2018 are just some examples. Climate Change is not imminent but affecting the people and cities and towns of the Commonwealth today. Rockport is currently challenged with localized flooding in roads, low drinking water supply during times of drought, water quality and stormwater management, and widespread loss of electricity during severe storms. However, Rockport has been proactive in planning and incrementally improving its resilience to natural hazards in the last eight years. The Town updated its Natural Hazard Mitigation Plan in 2012 and is preparing to update it. These combined efforts will minimize loss, maximize recovery, and protect its community in the face of our changing climate. Rockport envisions natural hazards and climate change as opportunities to build an even more vibrant, safe, and healthy community through these planning and action efforts.

Community Resilience Building Workshop

Rockport received a grant from the Massachusetts Executive Office of Energy and Environmental Affairs to participate in the Commonwealth's Municipal Vulnerability Preparedness (MVP) program. The program provides supports for municipalities to plan and implement key climate resilience actions using a community-based, multi-disciplinary, participatory planning effort through the Community Resilience Building (CRB) platform. Rockport hired the Metropolitan Area Planning Council (MAPC) to administer the program with the community.

Participants were identified using guidance from the CRB Workshop Participant Worksheet² and MAPC's best practices in ensuring equity in climate adaptation planning.³ Rockport's Town Administrator sent personal invitations to potential participants with broad sector/community stakeholder representation. Rockport gathered 19 participants across municipal departments, the school, housing, community groups, and political leaders to participate in the CRB workshop. Participants were assigned to small teams in a manner that maximized the diversity of sectors in any one given table. The goal in this method was to enhance different perspectives and identify resiliency opportunities that solved multiple vulnerabilities across sectors.

The Core Team outlined the following objectives for its MVP and CRB participatory planning event:

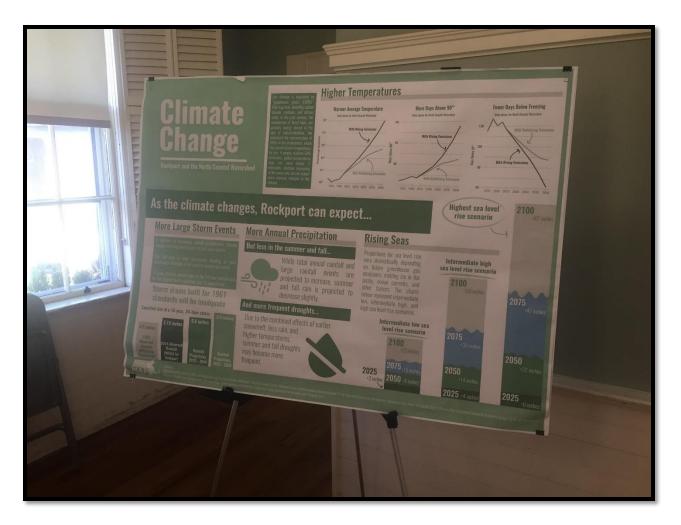
- 1. Understand connections between ongoing natural hazards and climate change on local planning and actions in Rockport.
- 2. Identify and map vulnerabilities and strengths of people and places, both buildings and natural environment/parks.
- 3. Develop and prioritize actions that reduce vulnerabilities and reinforce Rockport strengths.
- 4. Identify opportunities to advance actions that further reduce the impact of hazards and increase resilience in Rockport.

Figure 1 Informational poster on climate for Rockport MVP workshop.

¹ www.CommunityResilienceBuilling.com

 $^{2\} https://docs.wixstatic.com/ugd/29a871_7f4a484414be4e5f87d1041de9c8524f.pdf$

³ https://www.mass.gov/files/mapc-equity-and-climate-planning-mvp-webinar.pdf



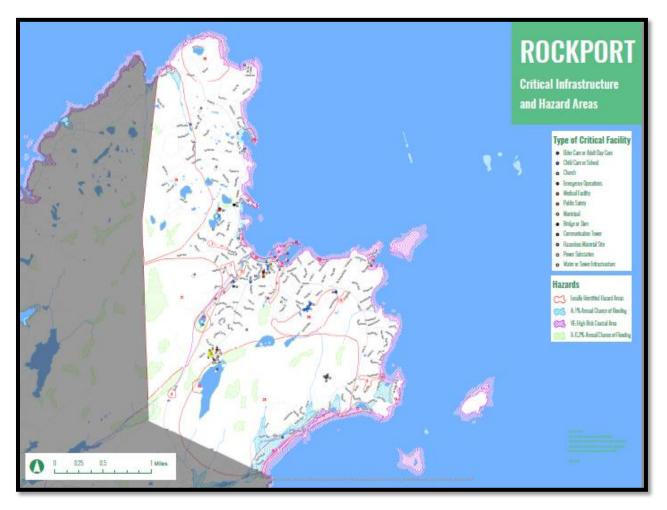
MAPC led and facilitated the workshop with four CRB-trained individuals. They provided to participants an introduction to climate change, climate observations and projections, and implications of these changes on the Town of Rockport's society, infrastructure, and environment. These were presented in both poster form (Figure 1) and power point presentation form. The following sources were used to inform the climate change introduction: (i) the Northeast Climate Science Center, (ii) National Oceanic and Atmospheric Administration, (iii) Cambridge Climate Change Vulnerability Assessment, (iv)the Boston Research Advisory Group, (v) Massachusetts Office of Coastal Zone Management, and Blue Hill Observatory and Science Center (Figure 1 and Appendix A). Furthermore, each small team had a table map (Figure 2) that identified Rockport's Critical Infrastructure, 1% Annual Chance Flood, locally identified hazards and areas of extreme heat.⁴

Participants brought wealth of knowledge and expertise from their respective yet diverse local experiences and fields and engaged in a consensus-building effort that gathered to "solve the problem" of climate change as noted by one participant. Driven by those who live and work in Rockport, the opportunity to advance resiliency is greatly enhanced through the CRB workshop

⁴ MAPC uses land surface temperature data during the hottest periods of the summer months in 2016 to ascertain how likely an area may experience the urban heat island effect. We represented the area in Rockport that outlines the top fifth percentile of land surface temperature of the 101 communities in Metro Boston.

platform, a collaborative and consensus-building exercise for Rockport's future. After identifying the Town's vulnerabilities and identifying and prioritizing actions in their small groups using the CRB Risk Matrix (Appendix A), the participants reconvened to vote on their overall top priority actions as a large group.

Figure 2 Rockport Small Group working map



This report serves to provide a summary of findings from Rockport's one-day CRB workshop on May 29, 2018. The prioritized actions in this plan represent a collective and collaborate effort with on priority actions for climate resiliency and natural hazard mitigation.

Summary of Findings

Top Hazards and Vulnerable Areas

The Core Team identified top hazards for the community of Rockport. These hazards were determined by challenges the Town has already experienced from recent events, long-standing issues, and alignment with the Town's Natural Hazard Mitigation Plan update.

Town of Rockport Climate Hazards include:

- Coastal Flooding/Storm Surge/Sea Level Rise
- High Winds
- Extreme Cold/Winter Storms/Snow
- Extreme Heat/Fire/Drought

These hazards pose greater risks in some areas of the Town than others.

Table 1 summarizes participants identified areas of significant concern.

See Appendix C for complete matrices.



Table 1. Rockport areas of concern vulnerable to identified hazards.

Neighborhood	Societal	Infrastructure	Environment
Downtown: Bearskin Neck/Dock Square	Elderly/carless/non- English speaking/flood- prone area populations	Sewer pump stations	Stormwater runoff
Beach Street: Front and Back Beaches	Food access- all markets in Gloucester	Seawalls and breakwaters	Salt marshes/barrier beaches
Wharf Road/Marmion Way	People with mental Illness	T- Wharf/Lumber Wharf/White Wharf	Drinking water supplies
Thacher Road	Low income individuals	Cape Pond/Loop Pond earthen dams	Invasive species impacts
Brooks Road	Fishing community	Carlson Quarry dam	Erosion of living shores
Folly Cove	Evacuation from key neighborhoods- Long Beach	Rockport, Old Harbor and	Forest and open space: fires

Penzance Road/Pebble Beach	Working with Gloucester on emergency management planning on Cape	Pigeon Cove Harbors Low lying electric and gas lines; propane tanks in exposed	
Long Beach	wide basis	areas Waste water treatment plant Beach drainage	
		culverts Roads susceptible to flooding: Thacher, Penzance, Long Beach	
		Senior housing facilities	

Current Concerns and Challenges Presented by Hazards

Participants and town officials noted the increasing frequency and intensity of storms, including nor'easters that brought damaging winds and snowfall, heavy rain events, and the recent period of drought. The principal challenges of the nor'easters are the threat of power outages, coastal flooding and lack of emergency access when low-lying roads flood. With increasing storm intensity, and rising ocean temperatures, the Town is also concerned that hurricanes such as Hurricane Sandy may extend further north with greater frequency. The recent drought of 2016 reawakened concerns over Rockport's water supply security as it relies primarily on smaller surface water supplies and municipal wells for its drinking water. Climate change is also seen as a significant challenge for the fishing industry in Rockport, one of the state's largest landing ports for lobster as the Gulf of Maine warms at an unprecedented rate. The Town is also concerned that heavy precipitation events may impact local dams such as the earthen dam at Cape Pond, a key water supply component. Workshop participants shared concerns that climate projections will heighten current challenges, and elevate new concerns, particularly public health issues related to high heat, as well as extreme cold and how they may impact weaker or isolated resident during extreme weather events. Although there are plans to add a new food market in Rockport soon, there were concerns that extreme weather events could prevent access to food markets as current markets are all in Gloucester, the closest being Stop and Stop, which floods during large coastal storms .Rockport has taken steps to prepare for climate change, with the most recent being the Town's Natural Hazard Mitigation Plan, completed in 2012 which the Town is preparing to update.

Areas of Concern

Geographic: Workshop attendees highlighted downtown areas subject to flooding from storm surge including Dock Square, Bearskin Neck and the lower end of Broadway/ Mt. Pleasant Streets. Other coastal flood prone areas included Beach Street, Marmion Way, Penzance Road, the Long Beach community, parts of Thacher Road, Wharf Road, Granite Street near Pigeon Cove Harbor and Folly Cove along with the Brooks Road neighborhood, a filled fresh water marsh area.



Societal:

Populations identified include: seniors and seniors who live alone, non-English speaking communities, low-income residents, renters, and people with health problems or disabilities. Also noted were populations living in nursing homes, residential facilities, senior housing and public housing. Participants were particularly concerned with barriers to emergency communication, and recognized that some residents have fewer resources to prepare for, endure, and recover from, severe weather events.

Environmental: Impacts to barrier beaches, coastal salt marshes and shoreline erosion were noted as major environmental concerns. The impact of drought, precipitation intensity and timing of rain events and drought were noted as concerns for maintaining conditions for a healthy water supply and forested/open space areas. Stormwater runoff was seen adding to both non-point pollution problems as well as contributing to flooding during storm events. Stormwater from higher, pervious areas flows to lower areas during storm events and then combines with coastal flood water to overwhelm stormwater infrastructure.

Infrastructure: Locations without generators or sufficient backup power were highlighted. Town facilities identified include: high school, senior center, library, and the civic center. Other locations noted were: senior housing, assisted living and other group residential facilities, and gas stations. Flooding concerns include the light department, light substations, and the airport. As noted above, the dams and downstream locations were also a key concern.

All of the coastal infrastructure was highlighted, including piers, seawalls, jetties and wharves. The Town's waste water pump stations, particularly the Dock Square station were noted as vulnerable, as well as the dams at Cape Pond and Carlson Quarry. Low lying stormwater infrastructure such as catch basins and culverts, as well as the Thacher Road Bridge were also noted. Water storage infrastructure was noted as lacking as well with some supporting the purchase of Johnson's Quarry to enlarge existing storage capacity. Some felt that the waste water treatment plant was vulnerable as it is located in an AE flooding zone while not within the coastal zone. There was concern over low lying electric lines and unsecured propane tanks. Other locations noted were: senior housing, and other group residential facilities, and gas stations.

Current Strengths and Assets

Rockport has a solid foundation of assets, services, people and infrastructure that will serve to enhance its resiliency through our changing climate. CRB participants highlighted these and sought to improve and enhance these with best practice resiliency efforts to ensure a vibrant future for their community. Assets identified by participants include:

Infrastructure

- Relatively clean environment- no industrial chemicals, wastes, extensive fuel depots, etc. that could be impacted by storm events.
- Three exit roads from town: Routes 127, 127A and Main Street; hike out using Dogtown trails.
- Commuter rail station not in flood zone.
- Partial offshore breakwater still exists and overall good condition of existing town breakwaters and jetties.
- Stormwater system has been separated from muni sewer system; no sewer overflows.
- New development stormwater fees funds improvement to stormwater system.
- Sewer pump stations have backup generators.
- All public safety and municipal buildings have backup generators.
- Town has Solar Panel Overlay District.
- Town is a state designated Green Community.
- Municipal buildings are relatively energy efficient.
- Rockport has an inter-municipal agreement with Gloucester in place regarding Long Beach
- All public safety, DPW, WWTP and the Town school complex are considered safe from flooding.
- Carlson Reservoir Dam is seen to be in good condition.

Natural assets and ecosystem services.

- Approximately 61% (2826 acres) of Rockport is open space, much of it contiguous, providing habitat, cooling and water filtration; about 35% of this land is owned by the Town or by a non-profit organization, with the other 26% privately owned.
- Many shoreline areas are of granite or basalt and provide protection against erosion.
- The Town has lots of permeable or semi-permeable driveways, reducing runoff.
- The Town is located along the North Atlantic Flyway for migrating birds.
- There are many strong environmental and preservation non-profits such as MA Audubon, Essex County Greenbelt and the Trustees of Reservations that own and manage land in and near Rockport.
- Dogtown Common land is undeveloped.
- The marshes, beaches and other living shorelines are all outstanding resources.
- There is a high potential for wind energy.
- Rockport has a strong wetlands bylaw and regulations.

Societal

Current Strengths and Assets

- A small community with strong, overlapping social networks.
- Town residents highly aware of coastal vulnerability.
- The Code Red emergency notification system has a high degree of participation.
- Local farm provides local food source.
- Many community-wide activities.
- Lots of senior housing.
- Active Council on Aging and Elder Affairs Coordinator.
- Highly engaged and educated local community is an advantage in building resilience.
- Reverse 911 system.
- Strong Harbormaster Department and Coast Guard station nearby.
- Pigeon Cove Fishermen's Co-op.
- Thacher Island Association/South End Association
- Chamber of Commerce
- Nearby hospital: Addison Gilbert
- Regular communication between DPW, Police in Gloucester and Essex
- Strong ties to Red Cross/MEMA/FEMA



Top Recommendations to Improve Resilience

Following the initial assessment of vulnerabilities and strengths, each small group was asked to determine climate resilience actions to address vulnerabilities and then determine the top three actions for each category. At the end of the workshop, participants gathered as a large group to report on their top resiliency actions for each of the three categories: infrastructure, societal, and environment. These actions were documented and combined when appropriate on posters. Participants then voted using green dots on their top three resiliency actions from the large group's collated actions. Appendix B illustrates the voting results. From this exercise, the Rockport CRB participants designated the following as their top priority actions:

<u>Infrastructure</u>

- Conduct a comprehensive Town-wide sea level rise and resiliency study with an emphasis
 on mapping all threatened structures and infrastructure. Assess Town roads and culverts
 and drainage system for resiliency. Determine what floods and when and determine what
 needs to be updated or replaced.
- Increase water supply resiliency by revisiting the option of purchasing Johnson's Quarry.
- Make sure that all sewer pump stations are adequately protected against flooding.

<u>Society</u>

- Educate the community regarding emergency management response. Work with existing Town staff, committees and area organizations to provide outreach and events informing Town residents of how to prepare and respond to emergency events.
- Coordinate closely with Gloucester on all emergency preparation and response planning.

• Expand the capacity of the existing Code Red emergency communications system and ensure that all residents are signed up.

Environment

- Re-evaluate existing stormwater, wetlands and zoning bylaws. Ensure bylaws address coastal climate resilience problems, water quality issues, and green infrastructure opportunities for stormwater management.
- Conduct an comprehensive drinking water supply study that takes climate change impacts into effect and looks at a broad range of supply strategies.
- Provide education on the roles of barrier beaches and coastal processes in providing climate resilience; seek funding for Living Shoreline and beach nourishment projects.

Appendix C contains the risk matrices from the CRB Workshop Small Group, which includes vulnerabilities, strengths, actions, prioritization, and time frame. Table 2 summarizes participants' other recommended priority actions for climate resiliency beyond the top three listed above, ranked by number of votes received.

Table 2. Summary of Other Top Actions for Resiliency

Category	Resiliency Action	Votes
Infrastructure	Storm-proof Dock Square pumping station	3
Infrastructure	Communicate with Gloucester for emergency road access off Cape Ann.	3
Infrastructure	Assess overall municipal sewer capacity.	1
Infrastructure	Extend Granite Pier seawall to Gull Island	1
Societal	Conduct outreach to the community on climate mitigation and energy efficiency opportunities	2
Societal	Conduct specific public education on sea level rise and climate change to seniors and those in public housing.	0
Societal	Conduct specific public education on climate risk and severe weather preparation for non-English or ESL residents	0
Environmental	Maintain access to beaches: work with land owners on climate resilience.	4

Environmental	Regulate impervious surfaces: update stormwater bylaw.	3
Category	Resiliency Action	Votes
Environmental	Town: Provide more renewable sources for energy.	1

CRB Workshop Participants

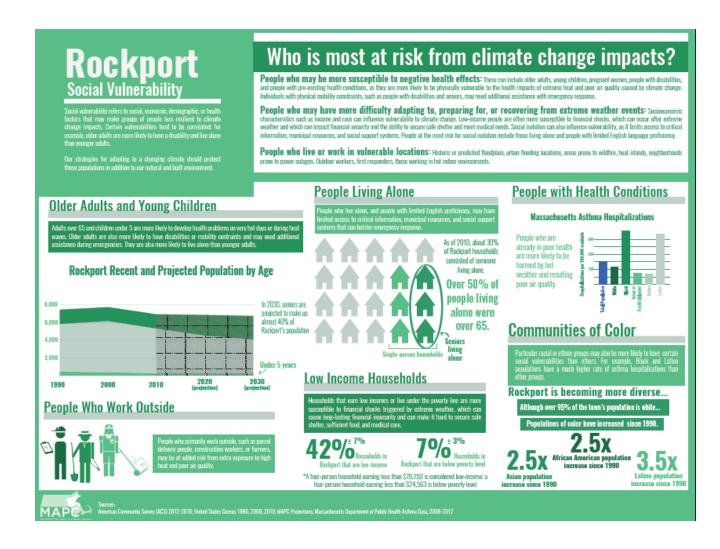
MAPC worked with the core team to create a modified CRB participant worksheet which built an invitation list of approximately 35 potential attendees with a wide representation across loca/state government, Town staff, non-profits, local business and utilities.

The Town Administrator wrote an invitation which was sent as an attachment via email. The invitation described the day's events. One week prior to the workshop, Rockport called invitees personalize the RSVP process. Personal telephone calls were instrumental in getting those who had not committed to attend.

First	Last	Affiliation	Table
Tom	Minkus	Rights of Way Committee	Red
Chief	Horvath	Police	Green
Cynthia	Carr	Housing Authority	Blue
Denise	Donnelly	Board of Selectmen	Red
Eric	Hutchens	Resident	Green
Edward	Hand	Planning Board	Blue
Rich	Souza	DPW	Red
Joe	Parisi	DPW Director	Green
Don	Greel	DPW	Blue
Bruce	Reed	DPW Commissioner	Red
Mitch	Vieira	Town Administrator	Green
Gerri	Falco	Conservation Agent	Blue
Sarah	Laursa	Conservation Commission	Green
Mike	Gallota	Rockport GIS Manager	Blue

Kirk	Baker	Town Planner	Red
Hank	Betts	Planning Board	Green
Lt.	Marino	Police	Blue
Paul	Orlando	Building Inspector	Red
Rosemary	Lesch	Harbormaster	Green
Scott	Story	Harbormaster	Blue
Jim	Doyle	Rockport Fire Dept	Green
Katherine	Glenn	MA Coastal Zone Managment	Blue
Sarah	Russell	Board of Heath	Red

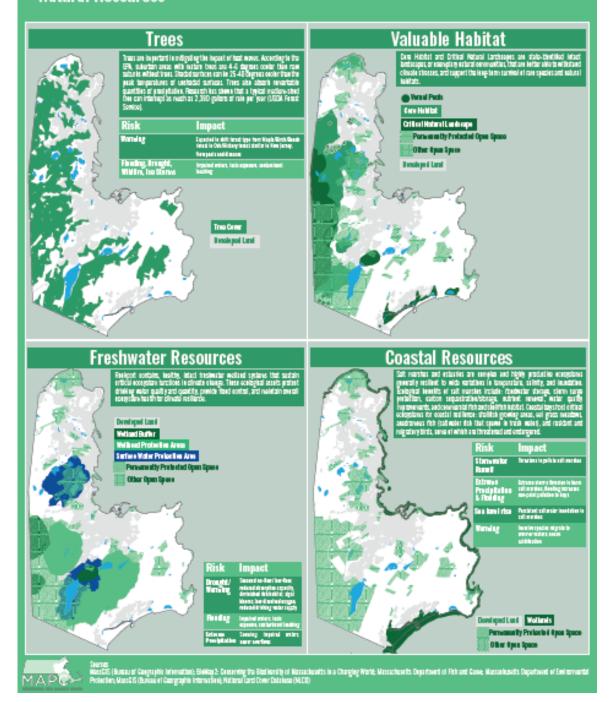
Appendix A – Rockport Climate Change Information Posters

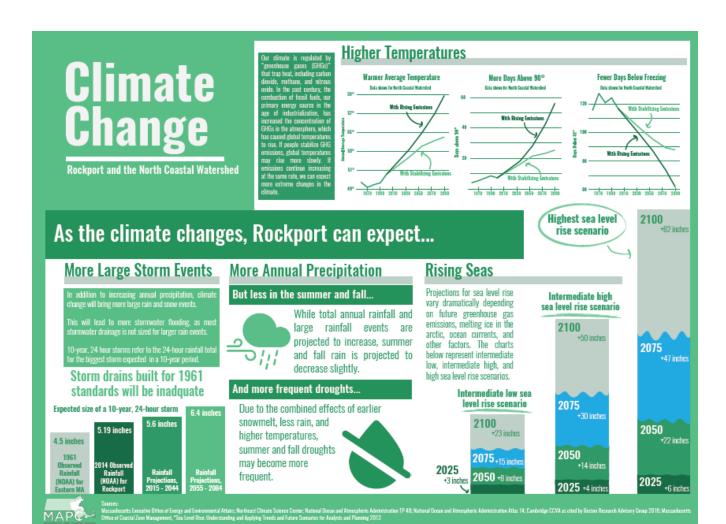


Rockport

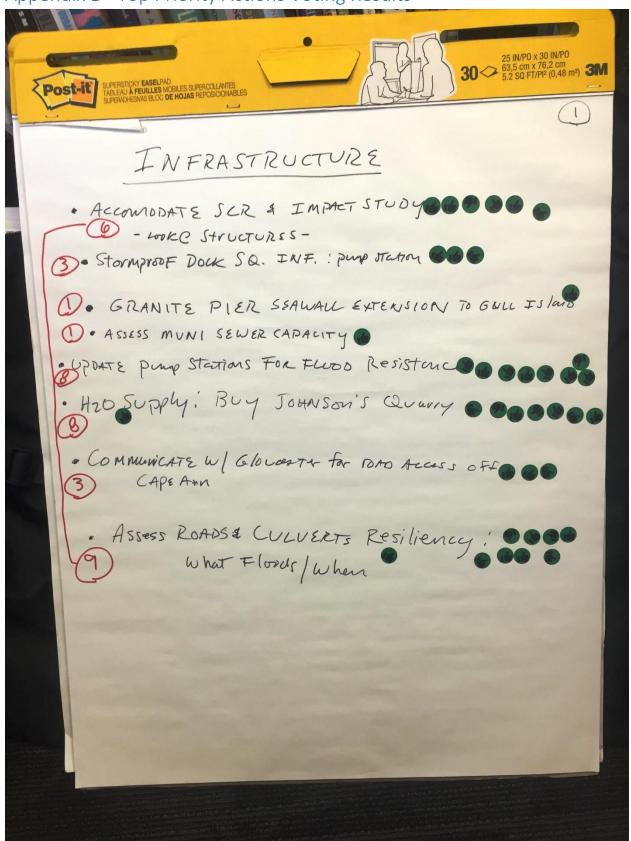
Natural Resources

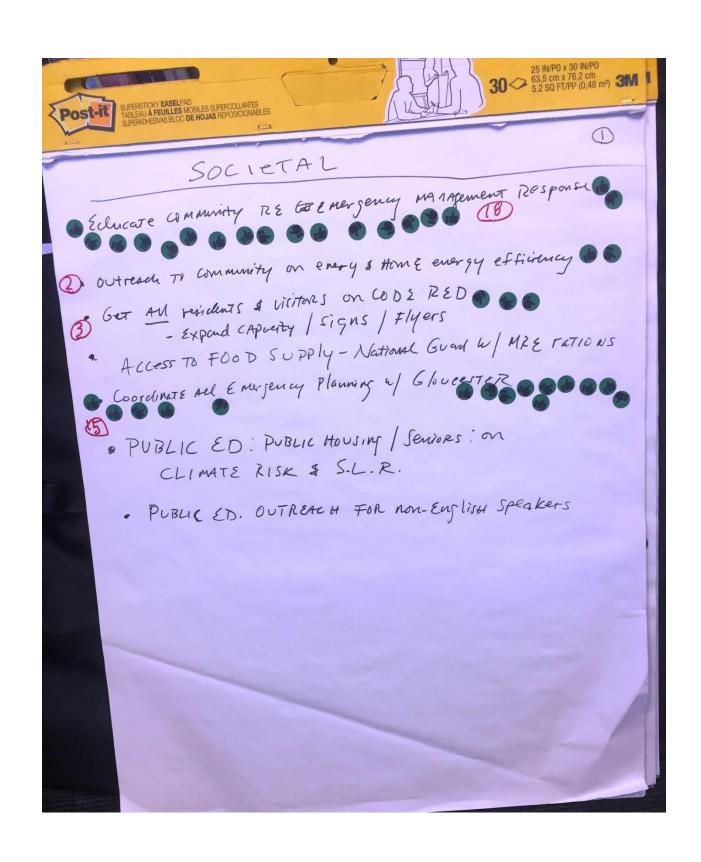
Natural Resources lessen climate impacts by absorbing and studing carbon disolde and by seming wital protection functions. Forests, upon space, welfands, rivers, and streams protect chinding water quality and quantity, provide fixed control, and give relief from extreme heat. Healthy ecosystems are more resistant to stresses from a changing climate and better able to protect against heat and fixeding.

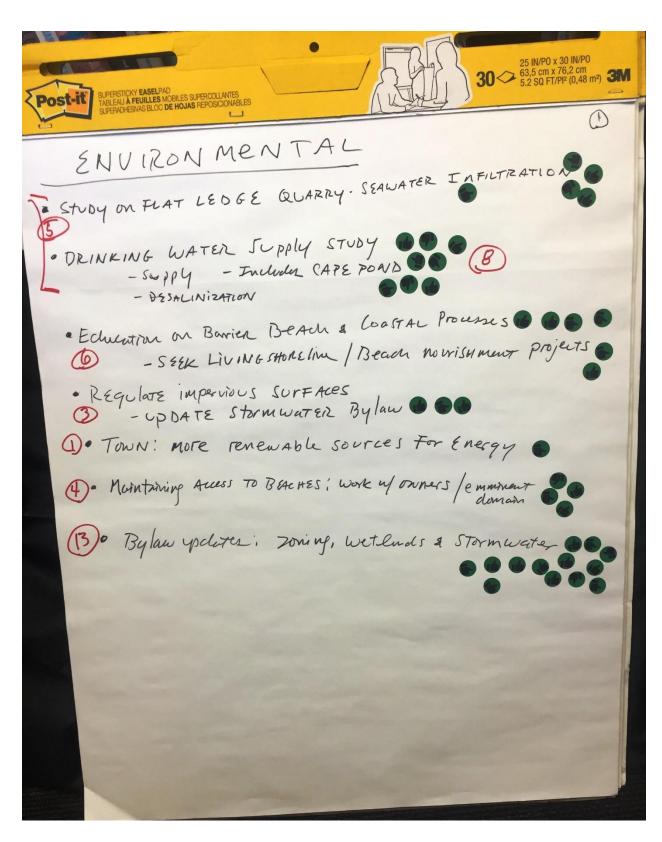




Appendix B –Top Priority Actions Voting Results





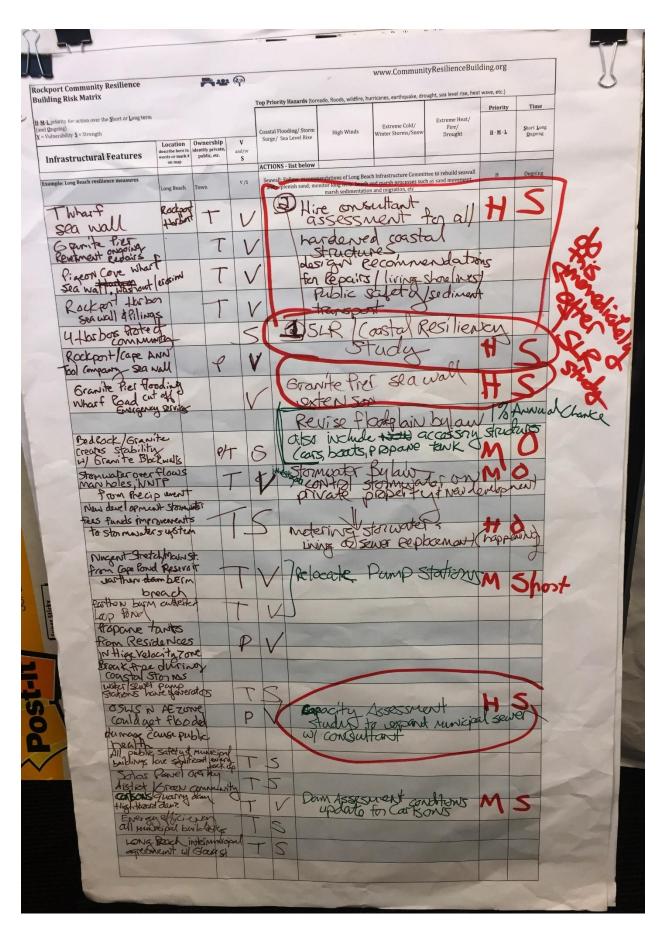


Appendix C-CRB Workshop Risk Matrices

kpc ldir	ort Community Resilience ng Risk Matrix		Aw			a Book wildfire	hurricanes, earthquake, dro	ought, sea level rise, he	at wave, etc.)		
	ority for action over the Short or Long term			Ī		nado, floods, wildfire,	Extreme Cold/	Extreme Heat/	Priority	Time	
lulnet	rability S = Strength		Ownership	V and/or	Coastal Flooding/ Storm Surge/ Sea Level Rise	High Winds	Winter Storms/Snow	Fire/ Drought	H-M-L	Short Long Quegoing	
_	astructural Features wo	on map	public, etc.	S	ACTIONS - list below	Evargeon	nes to rela	deaped	recoff		
	e: Long Beach resilience measures Acke Sure do highlight in R	ong Beach	Town	V /S	Seawall: Follow recomm and replenish sand; mo	endations of Long Bea	and marsh processes such and marsh processes such	as sand movement,	Н	Ongoing	
Pe	nzance Rd-aaoss peoble beach	10.8	state	٧	preserve le	dic acce	DESTRUCTION :				
	Dock Square, flooding		TICKOT IS	Carrie o	-		structure (DOCK STU		Nec	K)
	Bearskin Weck		Drivate	-	1		of seque	\sim			
-	(flooping)		,	1	Upgrade Upgrade	Pridmud	Stetens	g Beoskin	H		
	Town pumping stakens		laws	V	Flood	resist	state.	5			
1	Comes from		town	٧	A Line						
	No industrial chance fuel, etc.	els,		S	1						
	T-Wharf-			r	T'most shelle	muso processions	Kwcks				
	ON HORDO + NOW HO			Y	Jh. Id.						
	Bridge on 1217 (Tratcher Rd) ->		pu.c	·V	Mise to	nanta hiltsi ate road	n access	ruce			
	Beach St + Back Beach	1	4 put	.c V							
	3 main roads out of	PU-151		S			-00-				
	Dogtown trails -> possible ex	4	public								
	computer rail- invulnerable (drabid	ge being	c S	9						
	Long Beach utility	Nock		V							
	electric interesta	deve-		٧						1	
	Segudis+ brecke	zotors		1/	S						
	Graite Pier			V							
	off coast jetty			8	Control of the last of the las						
	brub strauz-v	-		C							
	emargory shelt	ier-		5	5						
	Brooks Rd-Filler	JIN		Y	1						
	Lidea Cone. H			-	1	7					
Į	Stormwater Systems up	3 goescu	+ P	ublic v	& Sterne	ater upgra	des				
9	Seprete Sterment Sustan	6			S						
۱	THECHIEN DIOH	- Capable	•;		V						
	water storage Capacity - wis	maga	ughts a	blic		inson Quo		F	1 L		
	publicpork						afforup in a				
					lina	inter sur	una priez ci	raiche			100

ort Community Resilience ng Risk Matrix	### @P	www.CommunityResilienceBuilding.org	
iority for action over the Short or Long term oing) rability S = Strength Location Own	Coa	pp Priority Hazards (formado, mouse, wame, formado, mouse, formado, mouse, formado, mouse, formado, mouse, formado, mouse, formado, formad	
pub on map pub	private, and/or ic, etc. S	ACTIONS - list below	
nts without transportation during extreme Priva		Assist associations in identifying and conducting best practices to reduce risk; create a Neighbor Helping Neighbor Program through local trainings.	
berly population (mobility iso	es) V		
people living along coast along otherson Pt	V	modify zoning - already has special	
Long Beach (exacuation)	٧		
Summer population	V	CNOTTIFY SUMMER PUPULATION INCLUDED HE CONTROL OF THE CONTROL OF T	
Back Reach-no cos in Storms	4		
Coastal houses	bunce A		
1 school-all kids	Y _S		
Small community—	S		
tour more awar of fully of coast	S		
Code Red -> 15ts of participation	S	+ emargary plas, having food, 420	
food access in one general in Gauss	Y	Stash tood supplies thoughout town - energing steller?	
farm wil voted production	5		
Stop 3 Shop st edged mosh	V		
lots of comminy-undo	0,		
lots of serior hasing	9	Work to project books during storm	
Fishing mobility + lobstor including	V	Condincte 1 planning up H (Condincte 1 planning up incl. food accept the	
affindable hasing density aning needed	1	V ENECULAR DION TO BEOTERN L O	
		Meck Design	

Rockport Community Resilience Building Risk Matrix	74	4	www.CommunityResilien		
H-M-Lpriority for action over the Short or Long term (and Ongoing) Y = Vulnerability S = Strength		Тор	Priority Hazards (tornado, floods, wildfire, hurricanes, earthquake, drought, sea iew oastal Flooding/ or Surver (Sra Level High Winds Wilner Storms/ Days (1997)	Priority	Short Long
Environmental Features Lo	Cation Ownership identify private, public, etc.	V ind/or S	Rise Snow	H-M-F	Qngoing
Example- No storm water bylaw, causing pollution during precipitation events, damaging wetlands and waterways	n wide Town		TONS - list below late stormwater bylaw requiring green infrastructure to help infiltrate water and pustormwater pollution - reguisite importions suchous	event H	s
luts of Stamulater runoff	TW both	٧			
Good amount of open	both	S			
Lots of perrectile or somipornectile driveway	printe	S	educate people Gloud giarei dina otherwedures	Mys,	
Lots of solor in town Green Community	Ntod	S	implement more tour-cured solo (landfill, roots, tour 100)		
wind study , done Results? windmills penitted at D	() d and d	2	12-exon the putting in windful	onnes H	%
Long Beach myrshloro	pall	٧			
mosh > not rectly. thought about		Y			
invasive speaks -		٧			
North Albric flying to migroling 1	inus	S			
Granite clary cocst		S	has been some that he	И	4
public access to ocean by sech			Manten public access through		
Greenbelt, Trusta Audbon > Open & Dogstown 20 get on Not 1 Reg. of		5			
on Nett Reg. of	H. ZOUT BICGE				



			And the second second	Name and Address of the Owner, where the Owner, which the Owner, where the Owner, which the	THE RESERVE OF THE PERSON NAMED IN				
					www.Commun	ityResilienceBu	ilding.org		
Rockport Community Resilience	A4	3 (2)					heat wave, etc.)		
Building Risk Matrix	11-	т	op Priority Hazards (tor	nado, floods, wildfire,	hurricanes, earthquake,	drought, sea level rise,	Priority	Time	
H-M-L.priority for action over the Short or Long term			oastal Flooding, Storm	High Winds	Extreme Cold/ Winter Storms/ Snow	Extreme Heat/ Fire/ Drought	H-W-L	Short Long Ongoing	
des des	Ocation cribe here in rds or mark # on map Ownership identify private, public, etc.	and/or	Surge/ Sea Level Rise		Show				
			ACTIONS - list below	and condi	cting best practices to re	educe risk; create a	н	5	
Residents without transportation during extreme weather	own-wide Private	V	Assist associations in Neighbor	Helping Neighbor Pr	ogram through local trai	nings.			
weather		-							
2 0									
Downtown agrad									
Arace 12/21 notice	lion S								
reastal sten MS									
Agas/Blize notice (castal stop MS									
Jasonal Homes		-							
Lasonal 4 BNB		-							
Police knock on		>							
coastal storms									
	+								
3 Senior facilities			/ FA.	cato	COMM	LIANT.	. 1	NA)	1
Erver loss potenti	el le	V	in		comme	1000	1	40	1
200 - 1		1	110	Tombi	eners	IN CO	and		
Reople Refuse +	0	1	1 ther	genray	voinage	ment	resp	DEMOS	/
Evacuate					All Indian				
Active Council a	.)								
1.	~	7							
Aging		1							
11.110									
Highly Engl	rick,						-		
Highly Engl #Educate Comp Advantage to Resilience	rently	_							
Advantage to	building	T							
Kesi/ienc	e	1							
0-16	1	_		T	a sutreo	A tell	cates	2	
Green Comm	unity	7	2000	11/2	anco N 1	Dames	4		
MSK OF	ce	_	apero	To rather		101 - 63			
							edili we(
Social maday code Red (Re Carail (15)							mol	1	
code Red (Re	use 911)	1							
			5	1					
Emergency	communication	IK,				All Control			
9		1							
						-		19	
									13. 21
									10000
	400	1							The same of
1									
		4	Allen						199
									No to the least of
						Contract of the last	100		
			-						
									- 15 - 15 B

