

Prepared by the East Central Florida Regional Planning Council for the City of Satellite Beach and the Florida Department of Environmental Protection.

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The East Central Florida Regional Planning Council would like to thank the following partners for their assistance in the development of the Metroquest Survey, review of the findings, and reaching out the community for their participation:

City of Satellite Beach;  
Florida Institute of Technology;  
Florida Department of Economic Opportunity;  
Brevard County;  
Florida Sea Grant;  
And the numerous volunteers from the City of Satellite Beach.



*Florida Institute  
of Technology*  
High Tech with a Human Touch™



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## Contents

Executive Summary.....	1
Introduction .....	2
Screen 2: Which Vulnerabilities are of Most Concern to You?.....	4
Screen 3: What Strategies Will Best Help Us Address Our Vulnerabilities? .....	12
Screen 4: Prioritize Your Opportunities for the City .....	39
Screen 5: Stay Involved .....	48

## List of Tables

Table 1: Vulnerability Rankings.....	5
Table 2: Loss of Utilities/Power Strategy Rankings.....	15
Table 3: Coastal Erosion Strategy Rankings .....	18
Table 7: Storm Surge Strategy Rankings .....	24
Table 4: Flooding Strategy Rankings .....	28
Table 6: Sea Level Rise Strategy Rankings.....	33
Table 5: No Vulnerabilities Strategy Rankings .....	37
Table 8: Opportunity Prioritization Rankings.....	40
Table 9: Age of Survey Participants .....	48

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## Executive Summary

This report is a summary of the survey results from the “Creating a Resilient Community” public outreach survey conducted by The City of Satellite Beach and the East Central Florida Regional Planning Council. Funding assistance was provided by the Florida Department of Environmental Protection Coastal Partnership Initiative Grant Program. The report provides an overview of results attributed to which vulnerabilities of the City were of most concern to residents, strategies for these vulnerabilities they would or would not support, and opportunities they would like the City to pursue or further investigate.

The online survey system Metroquest was utilized as a user-friendly interactive public engagement tool for this project. The survey was accessible via computer, tablet, and smartphone and was made available to the public from November 19, 2014 to January 19, 2015. The City sent a letter to the entire community encouraging their participation and also staffed a booth at a community event and at the community center.

Screen 2 which posed the first question of the survey: “Which Vulnerabilities are of Most Concern to You?” included vulnerabilities based on the Brevard County Local Mitigation Strategy, recent stakeholder participation, and local experience. The participants were asked to rank their top three vulnerabilities of concern facing the City over the next 50 years in order of importance to the respondent. After ranking vulnerabilities in order of importance, Screen 3 asked respondents to rate up to five (5) strategies for each previously ranked vulnerability. Screen 4 asked participants to rank up to five (5) of their top priorities they wish to see the City focus on when creating a resilient community. The eight opportunities listed on the screen were derived from the stakeholders at the public kick off meeting held on September 23, 2014. Participants were able to provide comments on each screen as well as provide other vulnerabilities, strategies, and opportunities in addition to the ones already provided.

The results of the survey showed a support for investigation and collaboration to ensure better resiliency of infrastructure such as power and utilities as well as stormwater. Based on results of the strategy ranking, as well as opportunities for the City, the respondents support natural defenses for the coastline and policy implementation to address development in vulnerable areas, while also diversifying and growing the tax base in a manner suitable for a small city such as Satellite Beach. Many of the “opportunities” and “strategies” rankings are relatable and provide a strong opportunity for the City to address resiliency while moving forward with opportunities and priorities identified by its stakeholders. The City should continue to work with the community to develop an action plan to address and refine the strategies, policies and opportunities identified through this survey. Additionally, the comments provided by the respondents are of great value and offer additional insight into their preferences.

## Introduction

This report is a summary of the survey results of the “Creating a Resilient Community” public outreach survey conducted by The City of Satellite Beach and the East Central Florida Regional Planning Council, with funding assistance from the Florida Department of Environmental Protection Coastal Partnership Initiative Grant Program.



**Metroquest** was utilized as the survey instrument providing an online, user-friendly interactive public engagement opportunity for this project. The survey, was accessible via computer, tablet, and smart phone( <https://cityofsatellitebeach.metroquest.com>). *(Please note, this link is no longer active.)* A paper copy was also made available to those who did not wish to utilize the online capabilities. A copy of the survey screens can be found in the appendix.

A public kick-off workshop was held on September 23, 2014, at which time the attendees were provided an overview of the Metroquest platform and the purpose of the survey. After analyzing the public’s responses and input from the workshop, the project team began working with the Metroquest staff to design the survey instrument, utilizing public input from the kickoff workshop, the 2014 Brevard Local Mitigation Strategy (LMS), and expertise from the project team.

There were constraints in designing the input text for the vulnerability, strategy and opportunities screens. For example, both the number of words allowed within each description phrase and the number of strategies that could fit within the screen were limited. While this limited the project team in the description of strategies to address vulnerabilities, it challenged the team to focus on simple, to-the-point wording, which could engage the stakeholders. In order to expand input for the stakeholders, respondents were provided the ability to make comments on each vulnerability, strategy and opportunity as well as add additional vulnerabilities of concern, strategies related each vulnerability, and additional opportunities for the City to pursue. These comments reflect a diversity of strategies, ideas, and concerns.



## 5 Stay Involved

STAY INVOLVED

### Final Questions

Age  
Select...

Satellite Beach Affiliation (required)  
Select...

Address (required)  
Type street number/name...

Email  
Type...

Additional Comments?  
Type...

Submit

The City of Satellite Beach’s “Creating a Resilient Community” survey was made available to the public from November 19, 2014 to January 19, 2015. Notice of the survey was sent to the residents and business owners of Satellite Beach via a mailed letter on November 20, 2014 (a copy of the letter can be found in the Appendix). Information was also posted on social media and the City’s website. The City also staffed an exhibit table at the City’s Annual Ocean, Reef, and Beach Festival on December 6, 2014 and set up booths at the City’s Recreation Center on January 13<sup>th</sup>, 14<sup>th</sup> and 20<sup>th</sup>.

According to the reports from Metroquest, a total of 1601 visits were made to the City’s survey site, 779 respondents actually participated in the survey with data entry. Results show that of the 779 site visits with data, only 479 indicated they were residents, property owners, or business owners of the City of Satellite Beach and provided a valid complete City address, while 300 respondents either did not enter a complete valid address or their address was not located within the City limits. Visitors to the survey site came from across the United States as well as other countries.

The survey required the respondents to input their street number and name and City Affiliation. This allowed the project team to accurately assess only the responses of those who provided a verified address within the City of Satellite Beach. Those who did not provide a valid City of Satellite Beach address were not included in the following analysis. However, full survey response rankings and ratings can be found in the Appendix of this report. The reports in this appendix have been directly downloaded from Metroquest. The information in this report provides an analysis of the responses to each question screen within the survey by verified respondents. Efforts were made to reasonably determine the validity of Satellite Beach addresses by analyzing addresses and streets using Google Maps and the City boundaries.



VULNERABILITIES

2 Which Vulnerabilities are of Most Concern to You?

Drag to order up to 3 vulnerabilities above this line.

---

Storm Surge

None

Coastal Erosion

Flooding

Sea Level Rise

Loss of Utilities/Power

The vulnerabilities listed here are based on Brevard County's local mitigation strategy, recent stakeholder participation, and local experience.

The City is vulnerable to each of the items listed, but some of them may be of more concern to you than others.

To help us understand which areas are of most concern to you over the next 50 years, drag one to three of your concerns to the top of the screen in order of importance to you.

You may add other vulnerabilities by first clicking on a vulnerability and then clicking on the "Suggest Another Vulnerability" button.

## Screen 2: Which Vulnerabilities are of Most Concern to You?

**Screen 2** posed the first question of the survey: "Which Vulnerabilities are of Most Concern to You?" The vulnerabilities listed were based on the Brevard County Local Mitigation Strategy, recent stakeholder participation, and local experience. The participants were asked to rank their top three concerns for the City over the next 50 years in order of importance to the respondent. Participants were able to add other vulnerabilities in this activity.

The following table illustrates the breakdown of the number of times each vulnerability

was ranked first, second, or third from among the six options provided, the percentage of respondents ranking each vulnerability as a concern, and the total number of times the vulnerability was ranked in total, weighted score for each vulnerability (number of #1s times 3 plus number of #2s times 2 plus the number of #3s), and the rank of the vulnerability based on its weighted score. The vulnerabilities are presented left to right from the highest ranked to the lowest ranked.

**Based upon the data below, the top 3 vulnerabilities identified by Satellite Beach survey participants are:**

**Loss of Utilities/Power**

**Coastal Erosion**

**Storm Surge**



Screen 2: Which Vulnerabilities are of Most Concern to You?

Table 1: Vulnerability Rankings

Level of Concern Analysis		Vulnerability					
		Loss of Utility/Power	Coastal Erosion	Storm Surge	Flooding	Sea Level Rise	None
Number of Times Vulnerability was Ranked 1-3	Ranked #1	134	96	85	80	42	3
	Ranked #2	80	94	96	109	42	1
	Ranked #3	76	72	97	81	56	7
Percentage of Respondents Ranking Vulnerability as a Concern		25%	21.50%	21.30%	21.10%	10.40%	0.70%
Total Number of Times Vulnerability was Ranked as a Concern		638	548	544	539	266	18
Percentage of Respondents who Ranked the Vulnerability as a Concern		61%	55%	58%	56%	29%	2%

## Screen 2: Which Vulnerabilities are of Most Concern to You?

Below are the “Additional Vulnerabilities” as well as “Comments” respondents provided through the survey process. The “Comments” are broken into the vulnerability under which the comment was made.

### ***Additional Vulnerabilities***

- Loss of natural reef habitat.
- Freshwater, Gasoline, Communications(cell towers)
- Financial
- Emergence evacuation off the barrier island.
- Fire
- Fire and drought
- Single point of failure for power and water. Satellite beach needs to explore options to become more independent of grid power and Melbourne water.
- Assistance to disabled and elderly
- Infrastructure erosion from salt
- This is my second time to fill out this survey as I think I miss read the other one.
- Roads wear, tear & need of repair & resurfaced
- "Over the next few decades local impacts of any significance are unpredictable because there are no valid scientific models with that geographic precision (global sea-level rise over that short timeframe is not significant here). Therefore local mitigation is not possible.
- Significant GLOBAL impacts that ARE HIGHLY PROBABLE over that timeframe (but whose locations are NOT predictable) would be severe weather events, droughts, forest fires, new diseases and plagues, loss of species, species mutations, crop failures, massive migrations of people and animals, soaring costs for food, insurance and disaster recovery, global geo-political strife and resulting economic impacts."
- Causeway(s) impassable
- Over development
- Tsunami - low probability, high impact event
- Loss of native sea life and food sustainability due to over development and introduction of chemicals into the estuaries , waterways and sea
- Large City Debt due to over paying employees pensions funds has they have done in the past.
- rising insurance, taxes

## Screen 2: Which Vulnerabilities are of Most Concern to You?

- Loss of roads
- Evacuation Plans
- Pollution of our waters and beaches do to cruise boats pumping out at sea, and cruise waste drifting to shore which we have observed at Satellite Beach
- Pollution of water and beaches caused by cruise ship pumping and litter. We have observed quite a bit of debree from these ships
- Lack of fresh drinking water

### ***Comments***

#### ***Loss of Utilities/Power***

- FPL can't even keep the power on during afternoon thunderstorms... Need to improve the power grid. Without power, all stops and no recovery.
- Too many power lines are above ground and therefore vulnerable.
- How is this a city issue?
- More underground utility lines.
- Power lines need to be placed underground.
- I've lived here 15 years, and the power outages (short or long) wreak havoc w/ electrical appliances.....Do something about it.
- A few years ago, we lived on A1A in a condo and so many elderly and disabled tenants were trapped in their units until power for the elevators were restored. We lived on the fifth floor.
- Would still like to see power buried on A1A but apparently that survey results were not taken into consideration by city council.
- Loss of utilities is the only item on the list that we have any control over. We cannot control the ocean and it would be foolish and expensive to try. If I had the slightest concern about flooding, etc., I'd simply move.
- Put the power lines underground.
- Underground utilities throughout the community.
- Construction on the beach shoreline should stop.
- Underground utilities are good idea.
- Frequent loss of power during summer months. Consider burying utility lines.
- Put wires underground.
- Bury power lines so that they aren't all taken down by winds during a storm.

## Screen 2: Which Vulnerabilities are of Most Concern to You?

- You forgot to consider the rise of seawater in the groundwater causing the need for desalinization by the local water district. They are not prepared for this which will result in a significant increase in the cost of potable water. This is the largest problem facing every water district in the United States.
- Underground utilities for all should be a priority.. We have had transformers blow out MANY times.
- Would underground utilities provide a benefit that would be cost effective?
- Bad but gets restored.
- Depending on length – lose of refrigeration and A/C.
- Are the utilities ever going to be placed underground?
- The utilities and their customers are responsible for this item. Government should get out!!!
- Reevaluation of power poles lines in coordination with FPL must be continuous, have the city inspectors building inspectors eval ID old poles alert FPL, place underground strategic lines or lines that frequently have to be repair after a high winds.
- The City should make sure that all tree branches near power lines are removed prior to June 1 (the start of hurricane season) and through November 30 (the end of hurricane season). Every year, I have a tree service trim the branches on our trees but many of my neighbors do not. The City should make in mandatory that all residents keep branches off power lines. It is an easy fix to power problems caused by winds >50 MPH.
- I've wondered for years now: Why can't we get FPL to bury the power lines on this island?
- Primary feed needs to be provided by buried cable instead of vulnerable overhead cable whose poles are vulnerable to high wind damage.
- Can we bury our power lines to eliminate them getting blown down?
- Our power browns out or flickers on any given day even when the weather is fair. In 2008 we were without power for 14 days.
- No power and the community dies. With constant Thunderstorms insuring power is important for smooth life here.
- This is the biggest concern. We all CHOOSE to live along a coastline of Florida and are aware that storm events occur and what the risks are.
- Live removed from above ground to underground.
- Don't let the fire dept. turn off utilities during and after hurricanes.

## Screen 2: Which Vulnerabilities are of Most Concern to You?

### **Coastal Erosion**

- Restore dunes, less building on east side of A1A as nature reclaims it.
- We need jetties or piers to combat the longshore current. Constant nourishment is not a sustainable solution.
- Stop building homes so close to the ocean!! Stop putting new sand on our beaches and save the money! If people build to close to the ocean than it is their fault and not ours, stop wasting our money on putting more sand on the beaches!
- I do not know the answer to this problem but constantly dredging sand and replenishing the beach is expensive and temporary at best – maybe rocks off shore??
- Rising Sea levels is con by extreme left wing fanatics who believe in the biggest hoax in American history (global warming). I'm offended that my tax dollars would be spent on this con, which is really a wealth redistribution scheme dreamed up Al Gore.
- Bad.
- No beach no community
- Most of us will not be here in 50 years. People who build on the barrier islands should be aware of the risks and not build in these areas if they are not prepared to handle the consequences of their actions. It is not the city's right to force others to pay for the folly of others.
- The most important factor here is ecosystem health. Turtles reefs and water quality is top concern.
- I am concerned about coastal erosion but I DO NOT think pouring sand onto the shore at taxpayer expense is the solution. Those who choose to build on the shore should take a greater role in covering costs for such activity. Also, limiting shoreline development should be a high priority even though it may decrease the tax base.
- Storm Surge and Sea Level Rise could also impact coastal erosion, so I've identified Coastal Erosion as an overall heading for these three issues. Coastal Erosion (CE) is an issue that is ongoing and near term. Storm Surge may occur but its impact could be mitigated by CE mitigation. Sea Level Rise will occur, but probably now within the time frame of this study.
- Concern is during hurricanes, not because of global warming.

### **Storm Surge**

- To handle the surge properly the city would need more retention areas to pipe to with outfall structures designed to handle the flow.
- My husband and I are working on a documentary on the aftermath of Katrina and as we traveled through the shooting footage, we agreed that most people have no idea what the forces of nature can do.
- Done.

## Screen 2: Which Vulnerabilities are of Most Concern to You?

- I don't think there is much we can do about as far as existing houses is concerned.
- Bad.
- Not sure if anything you can do to stop this.
- Diverting channeling infrastructure if possible.
- I think this problem is THE sleeping giant. In most parts of the city, the height differential between low waterline and the dune tops appears to be around 8ft. We've had some splash over in past storms, running sand and water to A1A. But if we ever have a full frontal impact from a storm with a even just a 15ft surge in front of it, we're going to be another Galveston. (not to mention the rise in the lagoon as shown by some Slosh Models.) By far, this is the most dangerous possibility facing us. It is the proverbial sword hanging over our heads by a thread.

### ***Flooding***

- We need to get real here. Satellite Beach is basically flat. When rain comes too fast or for long periods of time , our streets will flood. I've lived here since 1973 and the same streets flood now that flooded in 73. Look at all the work done on Desoto Parkway, and it still floods at every afternoon storm....Money well spent,,,Right....
- Update drainage, swells and berms, in public areas.
- Flooding is a lesser concern because all is flat and water runs off.
- Hopefully the installed drainage system will reduce flooding along streets like DeSoto Parkway.
- My home on 535 (house number deleted) Cinnamon Dr. gets flooding with a heavy storm.
- The city made pretty decent inroads into cleaning out and updating the stormwater runoff systems a few years ago. However, there's more to be done. I live in the original section of the town on Harwood. Doesn't take much of a rain to back water up the driveways from the street. As good as the system is, I suspect these pipes need more frequent checking and cleaning of debris.
- More and better street drainages.
- The dunes must be protected at all costs.
- What are the drainage alternatives?
- Bad
- We had previously budgeted to redo the sewers and this was only half done and way behind schedule. This needs to be resolved because it is an issue anytime we have heavy rain.
- The city focus must remain on infrastructure drainage, not beautifying A1A.

## Screen 2: Which Vulnerabilities are of Most Concern to You?

- This seems to be an area where the city may have more control than others. Keeping our drainage pipes clear through citizen education and proper civil engineering choices might help keep us clear of some potential flooding.
- Storm drains top issue.
- Storm drains in some of the older neighborhoods need to be fixed. The concrete on a lot of these is deteriorating as the rebar rusts.
- Canal between 611 and 613 Seville Court should be dredged to make flooding less likely. This canal is directly connected to South Patrick runoff.

### ***Sea Level Rise***

- Zoning has to account for this reality.
- Very iffy and a long way off.
- This city should invest in clean power - solar, wind, hydrogen vehicles, etc.
- There is no threat of sea level rise. The biggest threat is from allowing large buildings to be built on the beach. This causes the beach to sink. The beach consists of layers of rock and sand. Heavy structures cause the sand between the layers to erode away, thereby causing the beach to sink.
- The rise of the sea level could affect the whole state by pushing back land and forcing residents to leave the city and then populate other cities which could make housing cost more and less people to be able to live in the residence which in turn leaves people with less jobs and no income.

### ***None***

- I pay taxes and have insurance to cover me and mostly have insurance as in homeowners as well as flood and I do not live in a flood zone but do live on a barrier island.
- All of these are beyond the scope of a governing body to prevent or repair. Reality – a 15 foot storm surge will take this island and there is nothing we can do about it but make sure we get out of town in time. To make believe we have a viable plan will cost lives.
- The city installed new drainage and my street now floods with heavy rain. The city is the problem!
- Have lived here 3 blocks from ocean and have never had a problem ... Never a need to file for insurance claims.
- One of the biggest problems we have in this community is drugs – prescription pills – I took my kids out of the local schools because it is out of control. Let's address some of the real issues we have – not use drama and scare tactics.
- Been here over 50 years and these vulnerabilities have always gone the way of nature. We cannot control them.

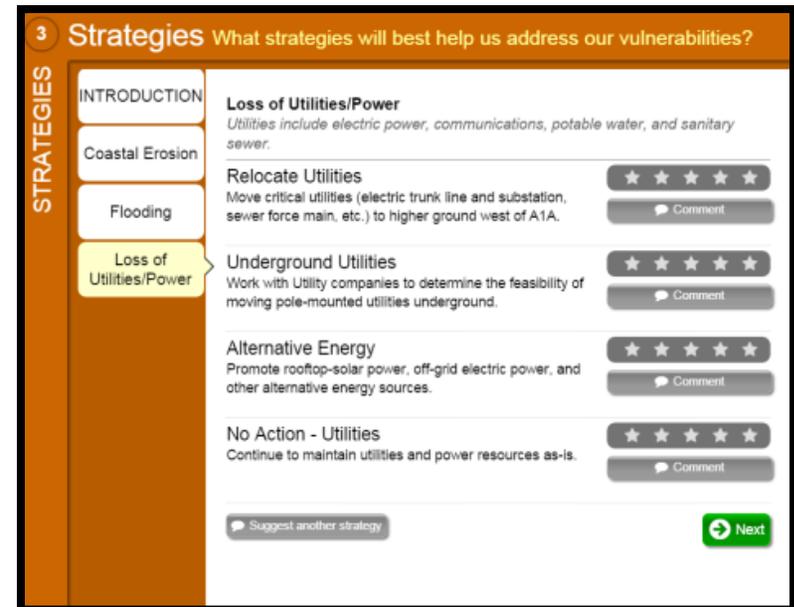
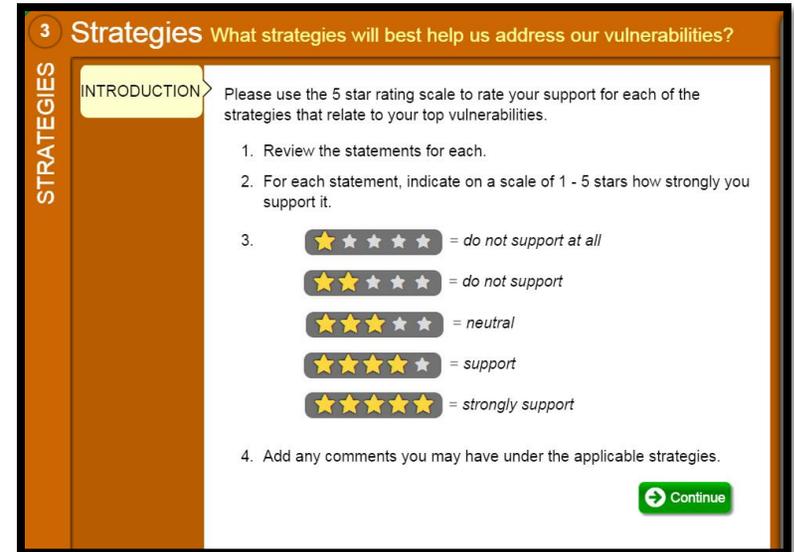
### Screen 3: What Strategies Will Best Help Us Address Our Vulnerabilities?

**Screen 3** focused on strategies related to the vulnerabilities addressed on Screen 2. After ranking vulnerabilities in order of importance on Screen 2, respondents were given the opportunity to rate up to five strategies for each vulnerability previously ranked. Using the star rating scale, each respondent was instructed to rate their support for each strategy presented with: 1= do not support at all, 2= do not support, 3= neutral, 4= support and 5 = strongly support. Respondents were also provided the opportunity to add additional comments and strategies for each vulnerability.

Each vulnerability’s strategies are illustrated in tables on the following pages and broken out by vulnerability. Strategies are presented within their respective vulnerabilities, which are presented in their rank order as presented above.

The project team analyzed the ratings of the 27 strategies in two ways to show 1) the strategies with the highest proportion of support among those who addressed that particular strategy and 2) the strategies having the highest proportion of support compared with all other 26 strategies.

To determine the strategies with the highest proportion of support among those addressing a particular vulnerability, the project team calculated a ratio of those supporting the strategy divided by those opposing the strategy in which support or opposition (2 and 4 stars) were counted once and strong support or opposition (1 or 5 stars) were counted twice. A value greater than one indicates support, and less than one opposition. To determine the strategies having the highest proportion of support compared with all other 26 strategies, the project team weighted those ratios in a manner that normalized each ratio for the number of times the strategy was addressed (awarded any



## Screen 3: What Strategies will Best Help Us Address Our Vulnerabilities

number of stars). In the latter, normalized, case, a strategy strongly favored by a few individuals would not score as well as a strategy favored less strongly, but by many more individuals. As an example, although the redevelopment strategy to address sea level rise scored higher when compared only within that strategy (11.8), the redevelopment strategy to address coastal erosion (5.4) scored higher in the normalized ranking because the number of people who addressed that strategy was sufficiently greater (240 versus 131) to outweigh the higher within-strategy score.

Within each vulnerability, the strategies are presented in their rank order as determined by the support – versus opposition ratio within that particular vulnerability.

**Based on the strategy analysis, the top 2 strategies with the most support for each vulnerability are:**

### **Loss of Power/Utilities:**

- 1) Work with utility companies to determine the feasibility of moving pole-mounted utilities underground.
- 2) Move critical utilities (electric trunk line and substation, sewer force main, etc.) to higher ground west of A1A

### **Coastal Erosion:**

- 1) Plant native coastal vegetation such as sea oats
- 2) Implement policies to direct development away from high-risk areas

### **Storm Surge:**

- 1) Increase construction setbacks from the shoreline
- 2) Implement policies to direct development away from high-risk areas.

### **Flooding:**

- 1) Install larger drainage pipes and structures as the system undergoes maintenance and repair.
- 2) Install vaults for stormwater storage and reuse for non-potable purposes such as irrigation, toilets and construction

## Detailed Table Analysis

The detailed breakdown and rating of each strategy is located on the following pages broken out by vulnerability. The tables illustrate the following:

- Number of times a strategy was ranked 1,2,3,4 or 5 stars.
- The positive/negative ratio which indicates proportion of support or lack of support among those who addressed that particular strategy.
- The ratio ranking score which indicates highest proportion of support compared with the other strategies within the vulnerability.

**3) Sea Level Rise:**

- 1) Identify areas subject to hazards of sea level rise that would benefit from long term strategies
- 2) Consider sea level rise projections in policies regarding infrastructure, zoning and construction standards

**None:**

- 1) Plan for only storms (rainfall and hurricanes) and coastal erosion without considering climate change or sea level rise
- 2) None of this is necessary and we should stop all efforts towards planning for a climate resilient community

**The top 10 order of strategies normalized across all strategy options is:**

- 1) Work with utility companies to determine the feasibility of moving pole-mounted utilities underground.
- 2) Plant native coastal vegetation such as sea oats
- 3) Install larger drainage pipes and structures as the system undergoes maintenance and repair
- 4) Increase construction setbacks from the shoreline
- 5) Implement policies to direct development away from high-risk areas (Erosion)
- 6) Implement policies to direct development away from high-risk areas (Storm Surge)
- 7) City takes action to reduce property owners' premiums for the National Flood Insurance Program
- 8) Install vaults for stormwater storage and reuse for non-potable purposes such as irrigation, toilets and construction
- 9) Promote rooftop-solar power, off-grid electric power, and other alternative energy sources
- 10) Move critical utilities (electric trunk line and substation, sewer force main, etc.) to higher ground west of A1A.

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*An interesting finding is that while, due to the lower number of responses on these strategies, they did not rank high in the feedback, they had a large number of "Strongly Do Not Support" (over 110 responses each). These strong "Do Not Support" in turn demonstrate that respondents in fact are supportive of the City taking action to address policies and other strategies to help the City, property owners and the resiliency of utilities.*

- 1) *Storm Surge – No Action - Property owners should make these decisions on their own without depending on government assistance or policy support.*
  - 2) *Erosion – No Action – Property owners should make these decisions on their own without depending on government assistance or policy support.*
  - 3) *Utilities – No Action – Continue to maintain utilities and power resources as-is.*
-

### Screen 3: What Strategies will Best Help Us Address Our Vulnerabilities

The table below illustrates the response ranking of the strategies associated with “Loss of Utilities/Power”.

**Table 2: Loss of Utilities/Power Strategy Rankings**

<b>Vulnerability: Loss of Utilities/Power</b>		<i>Utilities include electric power, communications, potable water, and sanitary sewer.</i>						
Strategy Title	Strategy Description	Number of Times Ranked					Support/ Opposition Ratio	Ratio Ranking of Support within Vulnerability
		1 Star	2 Stars	3 Stars	4 Stars	5 Stars		
Underground Utilities	Work with Utility companies to determine the feasibility of moving pole-mounted utilities underground.	7	4	32	49	179	22.6	1
Relocate Utilities	Move critical utilities (electric trunk line and substation, sewer force main, etc.) to higher ground west of A1A.	30	27	70	65	64	2.2	2
Alternative Energy	Promote rooftop-solar power, off-grid electric power, and other alternative energy sources.	40	32	52	30	105	2.1	3
No Action	Continue to maintain utilities and power resources as-is.	120	33	24	11	6	0.1	4

Respondents both most strongly supported the strategy of working with utility companies to determine the feasibility of moving utilities underground as a positive action, and strongly disapproved continuing to maintain utilities and power resources as-is. Based upon these results and the comments that follow below, the City survey participants are in favor of continuing the conversation, effort, and feasibility determination involved with creating a more resilient and sustainable utility and power infrastructure system.

Below is the “Additional Strategies Suggested” as well as “Comments” for the vulnerability of “Loss of Power/Utilities”. The “Comments” are broken into the strategy under which the comment was made.

#### **Additional Strategies:**

- What about having Florida Gas Transmission install a pipeline from mainland, across the river to the islands that would bring in a good supply of natural gas to our island. This supply would fuel electric sub stations and could off to fuel homes with natural gas.
- SMALL nuclear pwr plants. Look at France.
- You did not mention natural gas. This should be turned off at the meter before evacuation.
- Come up with a strategy to lessen bottleneck during evacuation. This will require working with agencies on mainland.

#### **Comments**

##### ***Underground Utilities - Work with Utility companies to determine the feasibility of moving pole-mounted utilities underground.***

- This appears to be the best alternative
- The only way to ensure power in not only hurricanes but everyday summer storms as well
- I believe these power lines should have been underground from day one.
- Sounds great but who pays for it?
- Best approach.
- City formed consortium to explore this before
- Not only is this safer but reduces the need to cut trees.
- Aesthetic win!
- Secure protected underground utilities are an excellent idea used successfully in other island and coastal areas.

##### ***Relocate Utilities- Move critical utilities (electric trunk line and substation, sewer force main, etc.) to higher ground west of A1A.***

- Sounds great but comes with a cost.
- If the utilities have a long life remaining, I do not favor moving them. If they need to be replaced, it’s worth investigating.
- Where is higher ground? Do you mean moving to mainland? A1A is on the beach so everywhere is west of it.
- Do critical utilities exist east of A1A?

### Screen 3: What Strategies will Best Help Us Address Our Vulnerabilities

- A study should be conducted to determine what additional power loss protection would be achieved by relocating utilities to a relatively small change in elevation.
- This will help the local jobs need, but will cause traffic problems during construction. This needs a good plan and a Cost Benefit analysis.
- A1A is usually the highest location. The land starts sloping down toward the river west of A1A.

#### ***Alternative Energy - Promote rooftop-solar power, off-grid electric power, and other alternative energy sources.***

- Federal and State grants should promote these endeavors
- Alternative energy is not a viable cost effective option. It is a scheme to facilitate the tax payer padding the pockets of green energy snake oil sales people.
- Great option to maintain necessary items for individual housing e.g. refrigerator, fans, pumps, etc.
- Strongly support the city exploring alternative energy production.
- If homeowners want to do this, let them. If they don't. OK. Government should stay out of it.
- Weight maintenance costs?
- This is a good individual action but not a community wide solution.
- If I pay to go off grid, do I also get re-assessed and pay more taxes for this home feature? I have a whole house generator, It needs to be replaced at a cost of over \$8000. Does that affect my assessed value?
- Every utility pole could collect energy as well as support wires that transmit it. Covered parking at beaches could provide ample space for solar collection and opportunity for metered parking income.

#### ***No Action - Continue to maintain utilities and power resources as-is.***

- Poor option.
- Action should always be taken to strive for a better tomorrow.

Screen 3: What Strategies will Best Help Us Address Our Vulnerabilities

The table below illustrates the response ranking of the strategies associated with “Coastal Erosion”.

**Table 3: Coastal Erosion Strategy Rankings**

<b>Vulnerability: Coastal Erosion</b>		<i>Loss of beach, dunes, and structures</i>					Support/Opposition Ratio	Ratio Ranking of Support within Vulnerability
Strategy Title	Strategy Description	<i>Number of Times Ranked</i>						
		1 Star	2 Stars	3 Stars	4 Stars	5 Stars		
Dune Protection	Plant native coastal vegetation such as sea oats.	3	4	15	45	176	39.7	1
Redirect Development	Implement policies to direct development away from high-risk areas.	20	15	36	43	126	5.4	2
Beach Renourishment	Importing sand from other areas to the beach using dredges or trucks.	42	21	47	42	83	2.0	3
Armoring	Installing hard structures such as sea walls, rip-rap (large rocks), geo tubes, etc.	52	31	56	44	52	1.1	4
No Action	Property owners should make these decisions on their own without depending on government assistance or policy support.	133	29	27	8	12	0.1	5

Respondents more strongly supported the strategies of protecting dunes naturally then armoring the coastline and also strongly supported the implementation of policies to redirect development away from high-risk areas. As with other vulnerabilities, respondents also strongly disapproved of no action with property owners making decisions without government assistance or policy support. Based upon these results and the comments that follow below, the City survey participants are in favor of further evaluating practices to naturally protect the coastline and focusing development out of high-risk areas.

Below is the “Additional Strategies Suggested” as well as “Comments” for the vulnerability Coastal Erosion. The “Comments” are broken into the strategy under which the comment was made.

#### **Additional Strategies:**

- Also be a part of the solution. As a city, encourage renewable energy sources.
- Jetties / Piers
- Some years ago, there was talk of putting a large structure in the water some ways out from the shore that would reduce the strength of the waves reaching the shore. It seemed like an idea worth pursuing, but I don't see that in these Strategies.
- Purchase all undeveloped oceanfront land and preserve as natural conservation area

#### **Comments**

##### ***Dune Protection- Plant native coastal vegetation such as sea oats.***

- The best way to protect the dunes.
- Allow for natural forms of protection. Allow area north of Air Force base to erode naturally forming another inlet.
- A responsibility of oceanfront property owners, not the government.
- This is the BEST OPTION. I have first-hand witnessed storm surge events in Sat Beach. The vegetation was the only thing that held the line against the angry swells.
- Must implement harsher penalties, and actually ENFORCE them, for violators walking through and messing with them.
- Always protect dunes. Prevent people from destroying them.
- Homeowners should be encouraged to protect the dune in front of their homes.

#### ***Redirect Development- Implement policies to direct development away from high-risk areas.***

- Sounds great but there is a cost associated with the purchase of property or telling someone they cannot develop their property, someone has the burden of paying its fair market value.
- If a structure collapses due to erosion, another structure should not be allowed to be built. Remove all man made debris and restore that area back to its natural state, or as close as possible. This would be the only reason why I would support sand from other areas to be brought in to replenish the area of erosion.
- Yes NEW development should be redirected away from high risk erosion areas.
- Use funds provided from state and federal government to purchase at risk properties as opposed to continually renourishing our beaches.
- Yes, stop the developers from building on every square inch of space. There should be a law in place to prohibit some of the building in our area.
- Redirect to the west side of A1A and open the east side to native vegetation.
- In the end, the ocean will go where it wants to go. We shouldn't be spending millions to protect the financial interests of the few who own the beach front property. The best course of action is to never build anything in areas that are at high risk of erosion.
- The Dutch reclaimed land 100's of years ago. The US and Sat Beach can do the same!!
- Keep buildings OFF THE SEA OATS AND SEA GRAPES.
- Respect the natural dunes and the flood areas

#### ***Beach Renourishment - Importing sand from other areas to the beach using dredges or trucks.***

- A complete waste of money – one good storm takes it all away. This should be paid for by the individual who benefits – I should not have to pay to protect someone's home – they chose the beachfront – they should pay.
- Expensive but necessary.
- This protects not only the beachfront homes but the beach also.
- Way too expensive. Little long term benefits
- Erosion is a natural occurrence that should be allowed to happen. Bringing in sand from elsewhere takes funding away from other needed projects. If homes and structures are built in a high erosion area, then the expense of build-up of coastline by outside sand should be at the expense of those owners, and them only.
- Beach renourishment provides a nice but temporary patch to a long term problem.

### Screen 3: What Strategies will Best Help Us Address Our Vulnerabilities

- I believe our erosion problem would not exist if the jettys at Cape Canaveral did not exist. Who was thinking that through? Possible to make them rearrange or pay for the sand that must be brought in every year.
- The city allowed the tall structures that are already in place so now we need to protect that. Not piping in enough sand and just using the trucking method did not do enough to help the situation as you can tell by the erosion that occurred in the last few weeks!
- We spend millions on this every year or so and it all goes away in the winter during high wind and tides. Never changes in our favor. Planting or just letting nature work it back to us might be tried?
- Only as a means to save structures until redirect development can occur.
- This has proven to be a huge waste of money. In the big scheme of things, it's SO temporary. Not even a good "band aid", as the next big storm can wipe it all out. Let's stop doing this!
- Strategy has no merit – it is a huge waste of money; the ocean will always win!
- This is a waste of money! A groin structure in a area with no live reef would be a better option.
- This is not sustainable indefinitely. It is expensive, noisy, impacts sea life.
- As in past work with military active & reserve.
- Absolutely not. Research is showing significant changes in the high raise in rip currents. And the majority of problems with treatment of our wonderful natural vegetation come from those contracted workers who have no idea the environment they're working with. I have had many experiences personally in dealing with this, during this summer's restoration project.
- Only a temporary solution. See the erosion this year.

#### ***Armoring- Installing hard structures such as sea walls, rip-rap (large rocks), geo tubes, etc.***

- This should be paid for largely by the individual who benefits – I should not have to pay to protect someone's home – they chose the beachfront – they should pay.
- Armoring – Installing hard structures such as sea walls, rip-rap (large rocks), geo tubes, etc. This makes the most sense; nothing else has seemed to work.
- Works in other areas.
- Distracts from the natural beauty of the coast line.
- Since beach renourishment is temporary, armoring of shorelines should occur in parallel to provide longer term protection and erosion control.
- These strategies should be implemented selectively. They should be looked at with a wide lens to ensure that they do not affect sand flow patterns so as to cause erosion issues in down current locations.

### Screen 3: What Strategies will Best Help Us Address Our Vulnerabilities

- Too much money, first storm usually destroys these structures anyway.
- Only as a direct effort to save structures until redirect development can occur.
- I don't think this works, long term. Eventually, the sea will destroy these things, or we'll end up spending millions to maintain them.
- This should be avoided on the beaches. We are on a passive continental margin, the sediment transport system needs to be more understood.
- This idea may have merit provided the proper methods are employed. I doubt the State and Federal governments will support this, though. If we can't get our beaches renourished without a 10 year struggle, what makes us think these ideas will be approved? Sea Walls? No Rip Lap? No, Geo Tubes? Maybe.
- Many countries use barriers that parallel the beach and are successful in actually adding onto the beach by wave action. My son did a project in grade school that showed it was possible to widen beaches in this way.
- Armoring with concrete does not work and causes further damage to adjacent properties, however there are armoring projects that include riprap covered over and are then planted on with dune plants that have better sustainability in storm events

***No Action - Property owners should make these decisions on their own without depending on government assistance or policy support.***

- We must all work together.
- Property owners are tax payers no matter where they live. If you have a government, then the government should be involved in development, policy and regulations of coastline development. While I believe that property owners should bear the burden of expense for destruction of their property, the city government can provide assistance through engineering plans of coastline development. This may help in preventing collapsing of coastline structures.
- Property owners should not be allowed to restore once property is in tidal zone.
- To the degree they knowingly invested in at-risk property, residents should bear the cost of protecting or restoring their property from adverse impacts due to coastal erosion.
- Should always have a Plan (action) to a better tomorrow.
- No, because property owners would do things that are in THEIR best interest, not the best interest of the beach, which is ultimately the best interest of the city.

### Screen 3: What Strategies will Best Help Us Address Our Vulnerabilities

- Those who choose to build or buy in these high risk areas should financially accept the responsibility for their choice. Our beaches should be added to/reinforced for the good of all residents, not just the wealthy who choose to live in a vulnerable area.
- They won't do anything.

### Screen 3: What Strategies will Best Help Us Address Our Vulnerabilities

The table below illustrates the response ranking of the strategies associated with “Storm Surge”.

Table 4: Storm Surge Strategy Rankings

Vulnerability: Storm Surge		Ocean or River Flooding					Support/Opposition Ratio	Ratio Ranking of Support within Vulnerability
		Number of Times Ranked						
Strategy Title	Strategy Description	1 Star	2 Stars	3 Stars	4 Stars	5 Stars		
Increase Shoreline Setback	Increase construction setbacks from the shoreline.	13	29	42	58	111	5.1	1
Redirect Development	Implement policies to direct development away from high-risk areas.	23	21	47	55	105	4.0	2
Flood Insurance	City takes action to reduce property owners’ premiums for the National Flood Insurance Program.	25	17	52	54	98	3.7	3
Raise Elevations	Encourage higher minimum elevations for buildings and infrastructure, where feasible.	22	32	71	67	57	2.4	4
No Action	Property owners should make these decisions on their own without depending on government assistance or policy support.	113	27	29	13	19	0.2	5

## Screen 3: What Strategies will Best Help Us Address Our Vulnerabilities

Respondents have indicated support for increasing shoreline setback, implementing policies for redirecting development, reducing flood insurance premium and encouraging higher minimum building elevations. These strategies should be further investigated and developed for the public to provide additional feedback. Again, respondents were not in favor of property owners making decisions without government assistance or policy support.

Below is the “Additional Strategies Suggested” as well as “Comments” for Storm Surge. The “Comments” are broken into the strategy under which the comment was made.

### **Additional Strategies:**

- Natural storm surge breaks. High barriers with overpasses, like have been constructed in the parks.
- Mandate the creation of a line of high dunes in front of beach buildings.
- More beach sand, but let the city own their own machine to move the sand up on the beach periodically.
- We're pretty new to the area and have not gone thru a major hurricane yet. Can the city point out areas or at least post what a homeowner should do in the event of storm surge. I wouldn't even know where to begin if I had to sandbag. Is it legal to take sand from the beach etc.
- 1. Consider partnering with other coastal communities for the installation of a deep sea indicator located off shore. Contact Tony Semaglia at TWC Oceanographic.; 2. Consider a moratorium on construction in projected flood zones; 3. Consider construction ordinances that require building on piers within so many feet of the low tide marker.

### **Comments**

#### ***Increase Shoreline Setback – Increase construction setbacks from the shoreline.***

- Increase shoreline setback for NEW development or additions to existing properties.
- The house at the end of DeSoto that fell into the ocean should never be rebuilt. That is East of the dune line and all structures need to be built West of the dune line. No more seawalls either they make matters worse.
- No more development on the shore!!! I want to see the ocean not a condo !! Selfish people...
- Do whatever can be done to minimize new construction east of Highway AIA.
- Do whatever can be done to discourage any construction east of Highway AIA.

***Redirect Development – Implement policies to direct development away from high-risk areas.***

- We are on a narrow island; not much would not constitute as high risk.
- New development should be redirected away from most high risk surge areas.
- The City should take action here.
- Encourage development but require flood proofing or wash-out first floors.
- Stop development!!! Our size if just fine!!!!
- Direct development away from the east side of Highway AIA.

***Flood Insurance – City takes action to reduce property owners’ premiums for the National Flood Insurance Program.***

- However, if taxes are significantly increased to compensate for the decrease in insurance it would be pointless.
- Flood insurance is not that expensive. Not worth the effort in my opinion.
- Action by City could entail lobbying Federal government to continue subsidizing flood insurance in vulnerable areas.
- Those of us who choose to live by the sea should assume much of the cost of doing so. Subsidies to property owners should be out of the question. Seeking help from the state or federal government would be a misguided priority. Better to muster those resources for shore protection.
- This is a difficult question due to not knowing what you would need to do to reduce NF ins, the trade off might not be worth doing anything.
- This is only a stopgap measure until federally-subsidized flood insurance is either not affordable or not available.
- Depends on what that action is. If it involves short term solutions, then no. If it involves long term solutions, then it should be at least considered.
- Do what we can but flood insurance premiums should cover the risk.
- Flood insurance is affordable, hurricane/property insurance is not.
- First the area needs to even be eligible for floor insurance.
- Reasonable actions such as flood control may be feasible. Property owners should not be placed in a position to pay increased premiums to supplement the premiums of those who built on the beach east of Highway AIA, without regard for the potential risk or regard for the rights of others to beach access.

***Raise Elevations – Encourage higher minimum elevations for buildings and infrastructure, where feasible.***

- Agree for NEW development. Disagree for modifications / upgrades of existing properties. Existing properties should be grandfathered in under existing rules.
- By doing this, other lower properties surrounding elevated buildings might flood. Have oceanfront properties built on pilings.
- Provides an interim respite at significant cost until more enduring solutions are implemented. Public buildings should move to higher ground over the next few decades.
- “Encourage”? Why not “require”?
- It’s probably too late since the city is mostly built out already.
- Stop building leave vacant land vacant!!! Buy up all vacant land especially A1A.
- This will place older lower grade homes in more danger of flooding. I have already seen it happen.
- Help home owners create areas to catch surge/retention ponds.

***No Action – Property owners should make these decisions on their own without depending on government assistance or policy support.***

- No bailing folks out of bad decisions. Mother Nature will always win.
- If people want beachfront living, they should be totally responsible for loss due to surge, not pass this liability on to non beachfront owners.
- To the degree they knowingly invested in at-risk property, residents should bear the cost of protecting or restoring their property from adverse impacts due to storm surge.
- All the city’s residents shouldn’t be paying to protect the private property of a small number of its residents.
- These areas should have been addressed years ago !!!
- To an extent the government does need to help, but NOT at the expense of tax money being distributed to emergency services such as fire rescue, and local PD.

Screen 3: What Strategies will Best Help Us Address Our Vulnerabilities

The table below illustrates the response ranking of the strategies associated with “Flooding”.

**Table 5: Flooding Strategy Rankings**

<b>Vulnerability: Flooding</b>		<i>Standing water in streets and lawns during and after rainstorms</i>						
Strategy Title	Strategy Description	<i>Number of Times Ranked</i>					Support/ Opposition Ratio	Ratio Ranking of Support within Vulnerability
		1 Star	2 Stars	3 Stars	4 Stars	5 Stars		
Stormwater Capacity	Install larger drainage pipes and structures as the system undergoes maintenance and repair.	4	6	31	83	123	23.5	1
Stormwater Reuse	Install vaults for stormwater storage and reuse for non-potable purposes such as irrigation, toilets, and construction.	18	18	48	65	92	4.63	2
Roadway Upgrade	This strategy would recognize periodic flooding may block access to the roadway, but the roadway would be built to withstand the prolonged exposure to water.	14	15	70	79	60	4.61	3
Install Pumps	Install pumps to alleviate flooding during rain events, storm surge, high tides, etc.	22	27	65	62	67	2.8	4
At-Risk Properties	Acquire at-risk properties from willing sellers.	78	43	58	22	27	0.4	5

There was strong support for the City to address stormwater capacity as the system undergoes repairs and maintenance. As with utilities and storm surge, the next three ranked strategies had support but at a definite lower level. Many respondents provided additional considerations under the flooding strategies that should be reviewed in detail by the City.

Below is the “Additional Strategies Suggested” as well as “Comments” for Flooding. The “Comments” are broken into the strategy under which the comment was made.

### **Additional Strategies:**

- I can speak to my opinion on prioritization of resiliency investments at a high level, but not in detail. In fact, I would prefer to have expert analysis and recommendation with best estimates of uncertainty, and then prioritize against other choices in budgeting.
- Reduce further development and leave more green space. We are far too developed for the space which is why we have the flooding now.
- Reduce further development and leave more green space. We are far too developed for the space which is why we have the flooding now. While I would reduce most development I would especially limit further development east of A1A.

### **Comments**

#### ***Stormwater Capacity – Install larger drainage pipes and structures as the system undergoes maintenance and repairs.***

- Installing storm drainage may help reduce home owners’ insurance premiums as seen in Indian Harbour Beach’s flood zone exemption.
- Cost is a factor that has to be considered.
- In my option, this should be a common approach regardless.
- Need to study what level of storm water capacity increase would actually make a difference and what the cost/benefit ratio would be.
- Reduce the acreage of impervious surfaces in the City. Require porous pavement for new construction and for repaving projects.
- Install (sp)
- Although the work done on DeSoto Parkway seems to have done no good.
- Agree.

### Screen 3: What Strategies will Best Help Us Address Our Vulnerabilities

- I support upgrading the infrastructure where possible and financially feasible given the constraints where all the lines are located.

#### ***Stormwater Reuse – Install vaults for stormwater storage and reuse for non-potable purposes such as irrigation, toilets and construction.***

- Good idea, would like to know more about it.
- May be a viable approach.
- Good idea for desert areas. Not cost effective in rainy areas.
- Reuse design should be directed towards new construction/Code, Retrofit of older homes is cost prohibitive.
- Great idea providing it isn't a boondoggle that cost the tax payers a bundle and serves very little use.
- Not sure how this could be done economically.
- This is a good thought but the expense of making this reality may outweigh its benefit.
- Must be transparent with internal operations and where money is going.
- Great idea.
- I strongly support this initiative and hope grant money could be obtained to facilitate making this happen. I fully realize that there will be costs the City would have to absorb and where does that money come from in an already tight budget.

#### ***Roadway Upgrade – This strategy would recognize periodic flooding may block access to the roadway, but the roadway would be built to withstand the prolonged exposure to water.***

- Elevating our roadways will make adjacent residencies more vulnerable to flooding. Installing storm drainage and flood pumps is a much more effective strategy.
- It's always better to build it right the first time, but past experience shows the town can't be trusted to hire competent contractors.
- Improve drainage systems in high traffic areas. Cinnamon Dr., Cassia Dr., Jackson Ave, e.g.
- Should have been in place already. The city is not that old and roads should have been constructed with this in mind. If not, then you better start putting revenue aside and think about a tax increase very soon.
- Consider this course of action only for evacuation routes.
- May be a viable approach.

### Screen 3: What Strategies will Best Help Us Address Our Vulnerabilities

- This is a good strategy but we have to be careful not to create problems for home-owners property by diverting water toward their homes.

#### ***Install Pumps – Install pumps to alleviate flooding during rain events, storm surge, high tides, etc.***

- How would we pay?
- Not really viable.
- Yes very much needed including not only Desoto Ave. but check out Harbour Pointe?
- Should have been in place for years. Why not? Probably because these types of equipment are not worth the investment on a barrier island. Where do you pump the water to? Back where it came from so that it can come back toward the pumping station to be pumped back out. Viscous cycle.
- We are surrounded by water – would need to see some data that quantifies the benefits of pumping flooded areas back to the sources of the flooding.
- Not sure if the expense of installing (and maintaining) pumps is worth the benefit. My sense is that it is not the best use of our \$\$\$.
- May be a viable approach.
- I would support this also but recognize there is a cost associated with buying pumps where do we pump the water.

#### ***At-Risk Properties- Acquire at-risk properties from willing sellers.***

- Contact Community Champions for assistance at (321) 421-6639 ask for Tom Darnell
- It's a waste of money to buy at risks properties...Potential loss of money.
- I am an at risk property and I do not want to be acquired, I have proposed solutions to the city engineer and am awaiting a response.
- Only once the property has been compromised/ damaged.
- All broad good ideas – but details are important.
- When I bought my home 2 years ago, the insurance company wanted me to insure if for \$100k more than I paid for it. When I asked how much I would receive if a total loss occurred, the answer was all the policy was written for. That is a good deal for me, I wouldn't rebuild here, I'd look for higher ground.
- Not well defined.
- Tough sale to the tax payers. Maybe after destruction and clean- up have occurred, and the land can no longer be developed due to new policy. I think the tax payers of this city would agree to the purchase of the land, but not to pay for demolition, cleanup and restoration. The original owner should have insurance to cover those expenses.
- Not sure this benefits the community at large – I don't see it is the community's responsibility to bail out those who chose to live in at-risk areas.

### Screen 3: What Strategies will Best Help Us Address Our Vulnerabilities

- If someone was stupid to build close to the ocean let them lose their money, not out of the pocket of tax payers.
- But not at a fraction of their value I hope.
- Acquisition of at-risk properties should be at deep discounts consistent with the fact that the at-risk properties should have never been developed in the first place and that the price should reflect that.
- I would support this however where would the funding come from to purchase these properties.

Screen 3: What Strategies will Best Help Us Address Our Vulnerabilities

The table below illustrates the response ranking of the strategies associated with “Sea Level Rise”.

Table 6: Sea Level Rise Strategy Rankings

Vulnerability: Sea Level Rise		<i>Increasingly Frequent Flooding in lower elevations in the City</i>					Support/ Opposition Ratio	Ratio Ranking of Support within Vulnerability
Strategy Title	Strategy Description	<i>Number of Times Ranked</i>						
		1 Star	2 Stars	3 Stars	4 Stars	5 Stars		
Impact Areas	Identify areas subject to hazards of sea level rise that would benefit from long term strategies.	2	1	14	36	78	38.4	1
Policy Considerations	Consider sea level rise projections in policies regarding infrastructure, zoning, and construction standards.	2	4	23	33	69	21.4	2
Redirect Development	Implement policies to direct development away from high-risk areas.	3	9	19	23	77	11.8	3
Protect Public Infrastructure Only	The City should only protect City infrastructure (buildings, roadways, utilities) from adverse impacts, not private property.	57	13	21	18	20	0.5	4
No Action	Property owners should make these decisions on their own without depending on government assistance or policy support.	78	10	11	10	9	0.2	5

Respondents most strongly support the identification of areas subject sea level rise hazards that would benefit from long term strategies. Policy considerations and redirecting development also received a strong level of support and tie in closely to the steps that could follow the identification of areas vulnerable to sea level rise. As with “Coastal Erosion” respondents did not support “no

action” with property owners making decisions without government assistance or policy support. Respondents also are opposed to limiting the City’s protective efforts solely to public infrastructure.

Below is the “Additional Strategies Suggested” as well as “Comments” for Sea Level Rise. The “Comments” are broken into the strategy under which the comment was made.

### **Additional Strategies:**

- Government should buy up all undeveloped ocean front land and turn it into parks which are flood resistant.

### **Comments**

#### ***Impact Areas – Identify areas subject to hazards of sea level rise that would benefit from long term strategies.***

- Areas east of A1A are the first ones subject to this and they choose to live there, they should shoulder the burden of any and all Government involvement in shoring their homes.
- Hasn’t that been done?
- Identifying areas that can protect homes and streets from flooding in the near future should be conducted. We live on a barrier island that will be under water in probably 100 years. It’s not that far off really. I don’t think you can prevent rising sea levels from destroying what is here.
- Of course!
- Government should purchase these properties and make parks.

#### ***Policy Considerations – Consider sea level rise projections in policies regarding infrastructure, zoning and construction standards.***

- It happening now, and the sea level is going to continue to rise not subside for generations if at all. Yes plans and policies should be put in place. Good luck.
- To NOT consider them would be an irresponsible, “head in the sand” approach. All the science points to rising seas – we have to consider that when making decisions about our shoreline.
- Stop building on the beach!

#### ***Redirect Development – Implement policies to direct development away from high-risk areas.***

- There is a risk to any development, add this factor to existing deciding factors.

### Screen 3: What Strategies will Best Help Us Address Our Vulnerabilities

- The more development there is in high risk areas, the more expensive it's going to be to keep dealing with them. ID the areas and keep all development out of them.
- It's a short term fix that is a double edge sword. By doing this, you lose tax revenue, a lot of revenue. Communities north and south of here probably won't go along with this plan, because they won't want to lose that money. If you don't redirect development, then the cleanup after disasters is going to continue to take more and more tax revenue for their cleanup.
- The developed portion of the City should migrate to high ground (>10 feet) west of A1A with no loss in the number of living units over a period of decades, preferably ahead of major economic losses, leaving at-risk areas as waterfront public open space.
- Stop building on the beach!
- Develop quick construction buildings I.e. Walmart or grocery stores that can easily be replaced.

***Protect Public Infrastructure Only – The City should only protect City infrastructure (buildings, roadways, utilities) from adverse impacts, not private property.***

- This problem will be solved with a joint solution.
- We are a community.
- I agree that most tax revenue should be spent for such protection, but the city does have an obligation to protect property owners as well. Without the property owners, you have no property tax revenue. Without the revenue from a property tax do you have enough money generated from other sources to protect public infrastructure? The city should provide guidance through planning, policies and regulations, and studies to help protect home owners.
- I do not see that public infrastructure is more important than private property – given that private property tax dollars pay for public infrastructure.
- I do not see that public infrastructure is more important that private property given that private property owners tax dollars finance the public infrastructure.
- Protecting infrastructure is government's primary, but no sole, responsibility.
- Sea levels will rise slowly, giving all existing property owners plenty of time to come up with their own strategies for mitigating their financial risk of owning the at-risk properties. It shouldn't be the city's job to protect the financial interests of the residents against their own poor decisions. (And "doing nothing about a forecast problem" IS a decision.)
- I agree, but this is not completely clear.

***No Action – Property owners should make these decisions on their own without depending on government assistance or policy support.***

- Interesting idea, but too many people come to Florida without an understanding of our reality.
- Yep – they’ve had the benefit of owning beachfront property. Now, they may have to suffer from its disadvantages, too. Life isn’t fair.
- The easy way out for all. The real fact of the matter is, if most or no other communities on the island get involved it’s a moot point. If people are serious about saving the barrier island from being wiped out due to rising waters from the ocean and rivers then the governments of these communities need to be heavily involved.
- Property owners should always safeguard their investments, including knowing the possible implications of climate change.
- To the degree they knowingly invested in at-risk property, residents should bear the cost of protecting or restoring their property from adverse impacts due to SLR.
- Stop building on the beach!
- The masses do not believe the true science.
- Sure, but they should also be responsible for the results. People who build on the beach should pay for erosion and destruction on their own property.

Screen 3: What Strategies will Best Help Us Address Our Vulnerabilities

The table below illustrates the response ranking of the strategies associated with “None” – no vulnerabilities.

**Table 7: No Vulnerabilities Strategy Rankings**

<b>Vulnerability: None</b>		<i>The City has no known vulnerabilities</i>					Support/ Opposition Ratio	Ratio Ranking of Support within Vulnerability
Strategy Title	Strategy Description	<i>Number of Times Ranked</i>						
		1 Star	2 Stars	3 Stars	4 Stars	5 Stars		
Disaster Response Only	Plan only for storms (rainfall and hurricanes) and coastal erosion without considering climate change or sea level rise.	0	1	2	4	3	10.0	1
Do Nothing	None of this is necessary and we should stop all efforts towards planning for a climate resilient community.	2	0	4	0	3	1.5	2
Education	Sponsor a series of public meetings where representatives of major environmental organizations (e.g., FDEP, NOAA, USACE) discuss what is known and unknown about coastal hazards.	5	1	2	1	1	0.3	3

### Screen 3: What Strategies will Best Help Us Address Our Vulnerabilities

The small number of respondents who ranked strategies for “No Vulnerabilities” strongly supported the City only planning for rainfall, hurricanes, and coastal erosion without considering future impacts from climate change or sea level rise and there was opposition to sponsoring meetings with agencies to better understand coastal hazards.

Below is the “Additional Strategies Suggested” as well as “Comments” for No Vulnerabilities. The “Comments” are broken into the strategy under which the comment was made.

#### **Additional Strategies:**

No additional strategies were suggested.

#### **Comments**

***Disaster Response Only – Plan for storms (rainfall and hurricanes) and coastal erosion without considering climate change or sea level rise.***

- Ok you are supporting Al Gore’s theory of doom and gloom. I support Ralph Nader’s clean up the environment with solar and wind use them to make hydrogen and our town vehicles can go gas free and clean. Satellite beach and the USA cannot prevent or even affect global warming by exporting all dirty business to developing nations it’s the same air everywhere.
- People should always be aware of hurricanes and prepare for the same. Nothing we can do can change the problems associated with hurricanes. Individuals need be responsible.

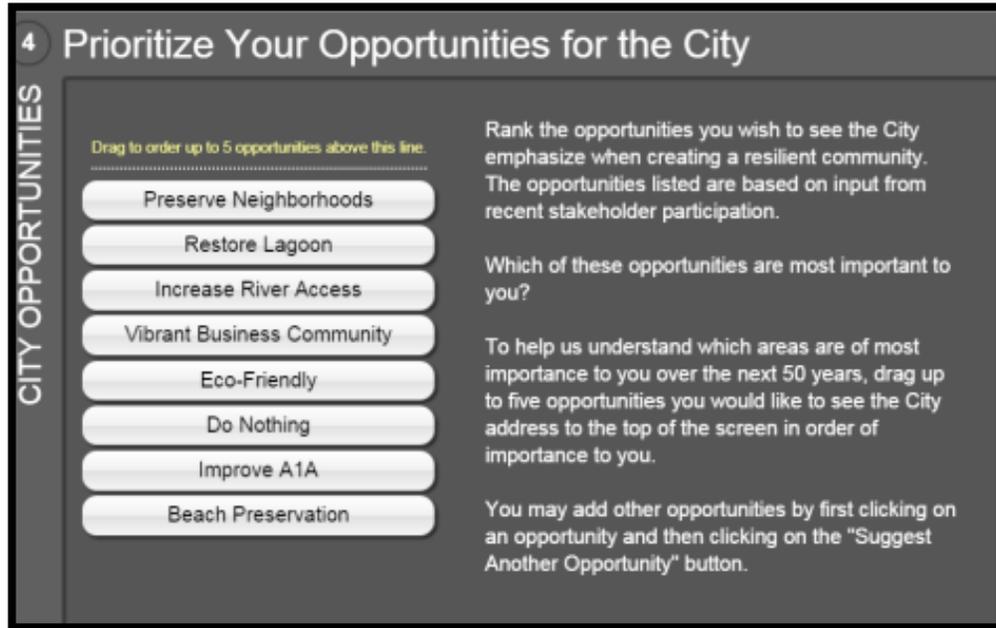
***Do Nothing – None of this is necessary and we should stop all efforts towards planning for a climate resilient community.***

- Not worthy of commenter rating

***Education – Sponsor a series of public meetings where representatives of major environmental organizations (e.g. FDEP, NOAA, USACE) discuss what is known and unknown about coastal hazards.***

- Again fear is not good to prevent anything it just raises money but a discussion by the same people on cleaning up the canals and Banana River is productive and useful for the community concentrating on hazards is counterproductive. Why protect and improve something you are saying will be gone.

### Screen 4: Prioritize Your Opportunities for the City



**Screen 4** asked participants to rank up to five (5) of eight (8) priorities they most desire to see the City focus on when creating a resilient community. The eight opportunities listed on the screen were derived from the stakeholders at the public kick off meeting held on September 23, 2014. Additional opportunities could also be added by the survey participants.

The following table illustrates the breakdown of the number of times each opportunity was ranked first, second, third, fourth, or fifth from among the eight options provided, a weighted score for each vulnerability (number of #1s times 5 plus number of #2s times 4 plus number of #3s times 3 plus number of #4s times 2 plus number of #5s), and the rank of the vulnerability based on its weighted score. The vulnerabilities are presented left to right from the highest ranked to the lowest ranked.

These results indicate that the top opportunities would be most supported by the City stakeholders and should be further evaluated by City staff. Based upon the survey responses, the two opportunities were ranked by over 70% of City of Satellite Beach residents and business and property owners:

**Beach Preservation**  
(Keep the Beach Natural)



**Restore Lagoon**  
(Address Nutrient and Other Issues)



The table below illustrates the number of times each opportunity was ranked as first through fifth for priority for the responder and the rank of each opportunity.

**Table 8: Opportunity Prioritization Rankings**

Opportunity	Opportunity Description	Number of Times Opportunity was Ranked					Weighted Rank	Percentage of Respondents who Ranked the Opportunity as a Priority
		First	Second	Third	Fourth	Fifth		
Beach Preservation	Keep the beach natural	96	102	92	30	22	1	71%
Restore Lagoon	Address nutrients and other issues	115	88	67	36	30	2	70%
Preserve Neighborhoods	Small town Character	81	65	68	54	35	3	63%
Vibrant Business Community	Appropriate Variety and Scale	46	65	55	42	53	4	54%
Eco-Friendly	Introduce Green Practices	41	42	62	48	34	5	47%
Improve A1A	Safety, Convenience, Aesthetics	49	36	40	50	45	6	46%
Increase River Access	Increase Access to Indian River Lagoon	18	39	34	34	24	7	31%
Do Nothing		6	0	0	3	5	8	3%

## Screen 4: Prioritize Your Opportunities for the City

The top four opportunities each ranked by more than half of the respondents. It can be considered that the responses the Metroquest survey indicate that those completing the survey favor the City keeping the beach natural and the small town character of Satellite Beach, along with restoring the lagoon and creating a vibrant business community with variety and appropriate scale.

The results of the Opportunities ranking exercise is congruent with and supports the previous input favoring responding to vulnerabilities with strategies such as developing natural protection for the dunes, increasing setbacks, and working to develop policies to move new development away from the shoreline. By increasing the tax base in less vulnerable areas, the City has an opportunity to redevelop key areas to create a more vibrant and diverse business community while keeping the small town feel that already exists. As the City moves forward in consideration and exploration of the findings of the public survey and refining strategies support by residents, it will remain an important component to keep the public engaged and continue to seek input.

Below are the “Additional Opportunities Suggested” as well as “Comments” for each opportunity stated in the survey. The “Comments” are broken into the “Opportunity” under which the comment was made.

### ***Additional Opportunities***

- Increase resident friendly access to beach, river and islands.
- Plant large shade trees throughout the city and parks that will grow with the city and provide beauty and shade for generations to come.
- Native landscaping practices encouraged including government buildings.
- Continue to support our Recreation Department with affordable programs for young and old.
- Put a campground of about 10 sites across from Publix. Short stays for about \$50 a night.
- Keep improving recreational facilities and increase fees on out-of-town users.
- Keep taxes high so that undesired people don't move to our community. Also keep a strong police presence to detour crime and keep our area safe and comfortable for families.
- Removing muck from city canals that was deposited there from years of poor/no stormwater management.
- Whatever came of the effort to accept/adopt alternative/electric transportation within the city using electric golf cart style means of transportation?
- Improve street lighting.
- Realistically the only meaningful LOCAL “mitigation” over that timeframe would be to minimize economic impacts of these predictable GLOBAL impacts whose locations are unknown e.g. initiate local incentives for global disaster recovery companies, disaster insurance companies, water purification companies, and defense firms, all of which will certainly

become more valuable if we continue to fail to reduce carbon emission substantially. Of course such local action would all be just selfish fiddling while Rome burns. What we really need to do is just stop burning so much fossil fuel. We can make personal choices to do so and we can push government to do so as Germany, England and others have already done.

- Provide a boat holding tank pump out station. This would help preserve our lagoon as the closest pump out station is at Telemar Bay Marina. Since that station was installed with all private money they can charge whatever amount they want and charge exorbitant fees. This I'm sure drives boaters to dump raw sewage straight into the river rather than pay the fee or travel to Melbourne marina (the only other reasonably priced local pump out station \$3 vs \$30).
- To plan for barrier island Brevard county coast will have to be considered. Underground power and sewage is not practical in shallow water.
- More bike friendly.
- Upgrade drainage fully in all of Satellite Beach.
- Let's bring in small windmills; we have strong winds along our shore.
- No more building. Encourage businesses to upgrade the look of the property. Or bulldoze and build on existing space, stop build on the little green we have left.
- More pedestrian/bike friendly areas and protection.

### ***Beach Preservation- Keep the beach natural***

- No high-rises.
- Stop adding dirt/sand from dry land pits.
- Natural habitat i.e. flora and fauna esp. turtles; Protect dunes; Local friendly esp. surfers, families pets as well, garbage bin access.
- No dredge and fill projects please. Create plastic bag ban.
- Buy more land and get rid of old condos with seawalls. They are awful and ugly.
- Important.
- Plant some Big trees for shade like they do in Costa Rica!
- Preserving the reef takes precedence over keeping sand on the beach, but the beach needs to be able to move to preserve public access along the beach. In the long run armoring is going to fail. Start to plan and prepare for that now.
- We have beautiful beaches and I think most people appreciate and care for them. I would like to see people pay a fine for littering the beach and for dogs on the beach.

## Screen 4: Prioritize Your Opportunities for the City

- Buy up the beach front properties vs buying sand for the beach. Tear down the seawalls. Do not allow any new structures to be built east of A1A and certainly not near the dune line.
- Keep the beach natural. Mother Nature will take care of it. After major storm events don't rebuild east of A1A.
- Important for everyone.
- Stop building on the beach..no more permits!
- Build jettys instead of wasting \$ on sand.

### ***Restore Lagoon - Address nutrients and other issues***

- Need to eliminate rain gutter runoff into streets and add swales into street easements to capture rain back to aquifer.
- Manatees convert 100 lbs. of sea grass to nutrients every day. Stop heating old FPL cooling pond in winter to reduce manatee population.
- Important.
- Of equal stature with preserving the natural reef/beach system, but more urgent given the lagoon's current condition.
- I think the City has made a major step in reducing runoff of lawn care nutrients. I think more needs to be done on this issue so that wild life can thrive in our area.
- Stop putting chemicals in the run-off ponds which then flow into the lagoon. You have already gotten rid of the birds in Satellite Bch.
- Start a program to replace old sewer lines and encourage homeowners to do the same. If you drive down our neighborhood street all the indentations in the road are broken pipes we only fix little sections when they collapse.
- Start a program to replace old sewer lines and encourage homeowners to do the same. If you drive down our neighborhood street all the indentations in the road are broken pipes we only fix little sections when they collapse. Encourage homeowners to fertilize properly and to water their lawns per the rules. The city should enforce the water rules via police force or a code enforcement officer.
- The beach and the lagoon are what brought residents here. It is imperative that they be made pristine. However, any properties currently on a septic system should be hooked up at city/county expense to the sewer system.
- Reduce the amount of water placed on lawns. Reduce waste ground water.
- Be care. In one spot the survey refers to the River, and then it refers to the Lagoon.
- I did a self-funded research project on lagoon health and found that motorized boats on the river have a catastrophic effect on water quality. There needs to be a tax if you own a motorized boat sitting in the river.

## Screen 4: Prioritize Your Opportunities for the City

- It will take close and continued cooperation with the other municipalities and entities along the lagoon. Won't be effective if everyone else around us isn't on board with us.

### ***Preserve Neighborhoods - Small town Character***

- I have brought this to your attention in the past. Desoto Parkway is a major thorough fare and there are portions of the center island west of Caribbean need to be restored. The unsightly state leave the many people who travel on that street or visit the ball field are provided with a bad vision of our community. Also, on many occasions people attending sporting events park on that unsightly center island. We are talking about the installation of sod or ground cover that can survive in shaded and dry areas. I did speak with the public works director, but no improvements have occurred. The center island east of Caribbean is well maintained and provides a good impression of our wonderful community. Certainly the cost factor will be minimal.
- Make a path down the middle of Desoto as a walkway and bike path like you did on Cassia.
- Condos and rental units reduce property values.
- Some of the roads that go from A1A to South Patrick could use re-paving. Like the one that Long Doggers is on (Roosevelt?) With the school and large amount of traffic it's starting to wear.
- There is so much opportunity for increasing real estate values in simple landscaping efforts (desoto).
- Satellite Beach is Satellite Beach because of its neighborhoods. It would lose its Mayberry-by-the-Sea, small town character if they were redeveloped or allowed to degenerate.
- The City should fine people who are not taking care of their lawns and homes. Also, the City should reduce the number of rental homes and make home owners list their homes only for buyers not renters. Renters bring down the quality of life in a neighborhood because they aren't really members of the community.
- Enforce the codes to keep property values up; run down homes hurt more than the owners property value, they hurt the whole neighborhoods values and reduces tax revenue.
- Maintain roads with proper, highly qualified road companies, not the lowest bidder which results in only a bandaid fix.
- Rebuild or new house on stilts.
- That is why we purchased in the area.
- By preserving, I mean leave them alone unless residents request changes. I would like two stop signs on Kale between DeSoto and Cassia. It's a race track some nights.
- Encourage people to take pride in their exterior and clean it up.
- City needs to review with residents prior to allowing noisy manufacturing to be in our backyards and move quickly!

- Can't say enough about this. This town is a crown jewel among the barrier island communities.

### ***Vibrant Business Community - Appropriate Variety and Scale***

- Bring more businesses/restaurants/shopping to the beach.
- Create green business district and offer incentives to businesses to come here.
- Needed.
- I would like to see business areas confined to small pockets in the community instead of along every inch of visible space along A1A and So. Patrick. It really looks poorly planned and I keep seeing businesses going in and out and we've only been here 2 years. A business where you have to travel right to that door and is not in the area of everyday shopping like by Publix is usually doomed to fail unless it's a knock out place that most everyone wants to go to frequently. Example - Longdoggers.
- It is one thing to want this. it is altogether different if it results in even more significant taxes above what we pay now. We have the HIGHEST millage rate in the county. I AM NOT At ALL IN favor of improvements with a concurrent rise in taxation.
- Including high-value jobs at a corporate park on the 100 acres to provide a market for homes throughout the City, instead of new homes that will compete with the existing stock of homes or new retail businesses competing with existing businesses.
- I am pleased with the businesses in our area. However, it would be nice if vacant buildings would be used before building other structures.
- Important to have areas to shop, but we did not move here because SB was a business community. We live here because of the ocean, lagoon, city services including excellent recreational/police/fire.
- In the past few years I've heard many a business owner talk about how difficult the city makes to open and operate a business, everything from difficult and demanding codes to taxes. We might want to look into this.

### ***Eco-Friendly - Introduce Green Practices***

- Need to eliminate rain gutter runoff into streets and add swales into street easements to capture rain back to aquifer.
- Encourage solar hot water heating through city incentives. Partner more with Lighting Science by buying LED street lights.
- Your business initiatives are weak and it is almost as if you are working against small business owners. You have a limited group of business in SB and you should be having regular scheduled meetings to understand their special needs and to create policy that supports those needs. I am not a business owner but I know many of them and it is a problem.
- Ok
- No Comment

## Screen 4: Prioritize Your Opportunities for the City

- Educate - many people still don't recognize that simple things like not blowing clippings and leaves to the street where they will end up in the canals and create a nitrogen rich environment aka sludge or decaying compost on our river bottom. Most improvement can be done by volunteers if well organized.
- If as a community we could find the best resource bulk price and installation that would help. I think most people are scared off by cost and misinformation.
- How great is it that SB has set aside so many acres of our beach!!
- Underground utilities to reduce hazards for citizens.
- The City has enough rooftops to be a net exporter of electric power from rooftop photovoltaics.
- We need to preserve the environment and go beyond lawn care. It would be nice if the City had a bike path on A1A that would link all beach communities from Vero Beach to Cocoa Beach. It would make people exercise (and become healthier) plus reduce car exhausts.
- Give tax exemptions for solar rooftop installation. And give tax breaks to condominiums for using solar swimming pool heaters and solar roof top for condominiums. Buy LED street lights from local company Lighting Science to save street light bill.
- This is a must.
- Who about personal windmills for power, we have great winds for it.

### ***Improve A1A - Safety, Convenience, Aesthetics***

- We need sidewalks on both sides of A1A.
- More greenery.
- Enforce a slower speed along A1A with more crossing opportunity and bike trails will enhance business.
- Put the power lines underground and it would improve safety and make our town better looking.
- I saw comments last year about the plan to have a sidewalk on the residential (west) side of A1A. This is where all of the homes and businesses are, it would reduce pedestrian crossover and possibly reduce traffic if walking were made easier. If there is room, bike lanes would help. Get community group rates on buying golf carts to help reduce traffic.
- Less important.
- Create full boulevard style street with "Michigan lefts" to aid in traffic flow in increase speed or create a full bypass/express lane from Patrick AFB 55 MPH zone south to as far as possible with minimal opportunities to exit the express lane.
- Once again, a bike path along A1A from Vero Beach to Cocoa Beach would improve the quality of life for residents and visitors alike. It would reduce traffic and reduce people's weight problems.

## Screen 4: Prioritize Your Opportunities for the City

- Increase side walk width for pedestrian and bicycles, and build pedestrian refuge islands , and lower speed limit to 35 mph on A1A, and add more pedestrian cross walks with stop lights so pedestrians can cross A1A every few blocks.
- Safety, convenience, and aesthetics, without excessive use of traffic lights.
- Build pedestrian refuge in place of suicide lanes. Increase width of sidewalks to encourage multi-use (walking, biking, roller blading).
- Slow down traffic. Safer access crossing A1A by foot. Funnel traffic to South Patrick Dr.
- A1A is fine, keep the big trucks off and the traffic under control.
- Reduce the speed from 45mph to 35mph let us cross the street safely. Sidewalks on one side, bike path on the other.
- A1A is so generic looking. needs medians which would be safer.
- The city needs to review with the residents prior to allowing a noisy business in our backyards!

### ***Increase River Access - Increase Access to Indian River Lagoon***

- Better facilities for city residents (excluding outsiders) increases property values.
- Don't know river access is blocked by the rich?? Enough already.
- Not enough public launching sites like Oar and Paddle Park in Indian Harbor Beach.

### ***Do Nothing***

- Plan, plan, plan for the future. It's a good thing to begin with the end in mind.
- At the original resilient community meeting the attendees were asked to provide these opportunities and to put dots on the most important issues. Overwhelmingly the majority of the people wanted to see nothing at all done yet the city is going to cram this resilient community issue down our throats due to a small vocal minority including a compl plan board member Ken Lindemena who makes living at FIT promoting sea -level rise adaptation action and resilient communities, Conflict don't you think?

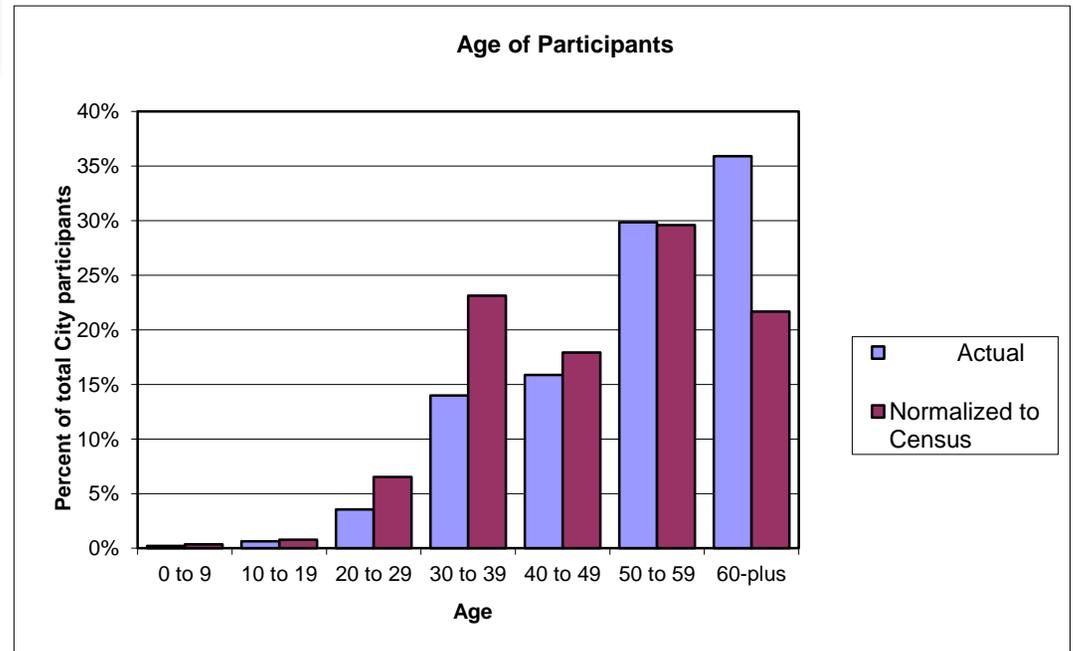
## Screen 5: Stay Involved

It is recommended that the City provide a more in-depth look at the demographic of responses in an effort to gear more outreach, educational opportunities and further engage all age groups, especially the 20-29 year olds.

Screen 5 captured the demographics of the respondents, provided links to additional information and required respondents to include their address and affiliation which were used to separate out Satellite Beach residents with valid City addresses, and business and property owners. This allowed the project team to analyze the results from City stakeholders and filter out respondents who are not stakeholders within the City.

When analyzing the age of the participants, due to the demographic make-up of the City, the project team normalized the results to the 2010 Census demographic numbers. This analysis showed a good age distribution of respondents among those 30 years old and older. However, the 20-29 age response rate was still low.

Table 9: Age of Survey Participants



Screen 5: Stay Involved

Overall Comments (from Demographics Page)
Request more funding from the state through local elected representatives/senators. Multiple Brevard county legislators are in leadership positions for the next two years.
Thanks for doing a survey!
Thank you, for giving the residents of Satellite Beach an opportunity to express and gauge our opinions.
Thanks!
Lower taxes
I would support "armoring" the beach if it supported surfers and other frequent beach users.
Drainage and beach preservation should be the priority. We can't change that we are on a barrier island... a big storm is a risk we all take in living here. But regular seasonal shouldn't shut our streets down.
Great points to think about now before it is too late.
Thank You for asking.
Quit putting sand on the beach at taxpayers' expense. Every time we have a storm it goes out to sea. Waste of money. Flooding on Desoto is despicable, your band aid fix didn't work.
Great you ran the survey and solicited our input!
This was a great way to get my attention and should be done as often as possible. However it is slightly skewed towards climate only improvements. Let's have more options like creating an awesome park in the giant open field next to the school. It would increase property values and be a huge economic draw. I could go on but this is from my phone
Keep up the good work!
How about allowing boats and motor homes in residential driveways
Submitted by H. Jerry de la Rosa and Judy de la Rosa.
None
Not sure why some of the statements were even available. Larger storm pipes lol. Elevation doesn't allow for that on the beach were the

Screen 5: Stay Involved

Overall Comments (from Demographics Page)
elevation is only 6 feet above sea level. And many other statements. Let's try fixing the storm box installed on desoto that has a huge hole out the east side. After all it is designed to catch trash and debris not allow it to escape into the canal.
We've been part of this town for many years. My husband is Mr. Science and I teach guitar with the rec dept. We're here to stay because we love Satellite Beach.
This survey is a great idea!!
Too much emphasis, time and funding has been placed on going back to "Native," when Native is a relative term. Using the same criteria, our population should be removed from Satellite Beach.
Great format for resident feedback.
We support clean and sustainable drinking water.
I am looking for corrective action and not excuses that the area is dry and shaded. Overall we are pleased with the services provided in Satellite Beach. We have excellent Police and Fire Departments. The Recreation Department Is tops. Overall the DPW does a wonderful job. Recently, I needed help from the building department and they were very responsive and helpful. We are happy to be back in the incorporated area of Satellite Beach after a long absence.
Quit building on the beaches. Slow the speed down on A1A Minimize land development so water is absorbed back into the earth.
Did not understand step 3. No strategies were listed. I'm on a mac using Safari maybe that's the problem.
Proper up keep of our Park Ave. Beach access it needed...new garbage can, trimming of palms and surrounding landscape, and safe stairs are a big issue
Taxes are too high already; no additional money draining projects should be implemented until practical budget cuts are done.
Thank you for this and other communication improvements to help engage SB citizens in local policy, governance, and sustainable vibrancy.
I'm concerned about the handicapped people. Live alone.
City resources should be prioritized on paying off existing debt and maintenance of current facilities before any addition acquisitions or improvements.
None

Screen 5: Stay Involved

Overall Comments (from Demographics Page)
Extremely opposed to beach restoration. Huge waste of money since it is not sustainable. Look at Boca Raton, FL they have spent 50 million +, killed all the reefs and costal sea life that made their beach beautiful and still have to dump more money year after year due to the mess they created.
I hope we are evaluating what we would like to do vs what we can afford to do.
Love Satellite Beach
We need more business on the ocean to bring in tax \$'s.
Affordable homes and taxes so retirees can live within their SSI
Great community
I liked the way this survey was designed. I would like to work with those designing programs for the older members of our community as we plan for the future.
Nice survey instrument!
Stop wasting our money on the global warming garbage.
Change timing on Cassia traffic light to reduce wasted fuel and brakes for main S. Patrick traffic. It's only needed for school traffic and fire station responses.
Thank you for seeking input. Many thanks, Trent
Keep a strong police presence and take advantage of Natural Gas to fuel homes and power stations.
I appreciate being asked my opinion.
Landscaping requirements for business along A1A and South Patrick. Enforce city ordinances for home upkeep
Continue improving communication
LOVE This format of input request from the community! Also while I submitted it as a suggestion the reality is canal maintenance to remove MUCK is LONG overdue. Both for healthy eco-system and to improve depth for boating.
I am really concerned that you are going to create an Uber redevelopment committee and really spend us out of existence.

Screen 5: Stay Involved

Overall Comments (from Demographics Page)
I appreciate the fact that the city is showing concern about the future of life and land ownership on the barrier island. I only hope that the other communities on the island are doing the same, because as stated previously without their involvement, it's all a moot point. Thank you for setting up this site and survey.
We waste a huge amount of money on an oversized police force for this community. Cut that budget to implement some of these ideas.
Please do whatever it takes to get rid of unsightly wires that are strangling this city. Half of the homes have rolls of wires connected to unsightly poles every few feet. It's 2014!
Look into more grant opportunities
Lower taxes
Streets surface shows much wear & tear with pot holes and street's side concrete drains slabs breaking up. Not enough street lights.
Satellite Beach should support and promote emitting less carbon through education, local initiative and global action. A good benchmark is the City of Aspen, CO.
Have lived here 29 years love the town. Our children move out and when successful they move back to the beach. Keep our small town alive with good schools, good teachers, good town employees and people who know we have a delicate balance with nature and wish to preserve that balance.
None
Love living in Satellite Beach and will do my part to help the city become more resilient.
This is a global warming scam! Ask yourself if CO2 is reduced how many plants will be alive? We cannot live without plants. We need to increase CO2 so plants are healthier. Current CO2 is 350ppm plants like 1000ppm. Take CO2 to zero and we all die! Wake up!!
Do not contact
Make preservation of beaches a top priority
Love our city!!
TOO MUCH FOCUS ON CLIMATE CHANGE. CLIMATE CHANGES BY DEFINITION AND THE DATA DOES NOT SUPPORT MASSIVE FINANCIAL TRANSFERS TO GOVERNMENTS THAT MISS USE OUR RESOURCES
Work to remove old base housing east of Montecito. Develop open acreage south of Shearwater Parkway with upscale businesses

Screen 5: Stay Involved

Overall Comments (from Demographics Page)
Love being a resident. If there is anything I can do to help let me know.
I recommend this method for citizen input - written letter with link to easy-to-navigate website. It was easy for me to complete, and got me to look at what I want for my city's future. Awesome that you got a grant to pay for it, too.
And part of local insurance business community
Use this survey to set priorities BUDGET around the plan indicating long & short term goals, STICK TO THE PLAN and only deviate when an emergency occurs
This is a great and ecofriendly way of getting personal input. I hope that as a community, it'll help us all
<p>This a very livable community as it is. I particularly like the fact that has limited dependence on tourist \$\$\$ and has maintained many different but well-kept neighborhoods making it very "family friendly". My grandkids are/have gotten excellent educations from Ocean Breeze up to Satellite High. There are a lot of places/activities for kids and adults. As an RC modeler I really appreciate the fact that we can utilize the library soccer fields during the weekdays as well as the fact we are allowed to use the rec center for a few hours on Wed when school is in session. Do not change the social climate of our town!!! Make sure it maintains its wholesome atmosphere (i.e. if it ain't broke don't try to fix it.).</p> <p>We are subject to the whims of mother nature and we'll never be able to completely mitigate the effects of her wrath...but we ought to take cost effective preventive actions after a cost/benefit prioritization of "bang for buck" with emphasis on infrastructure. (Access/utilities/property protection/etc.)</p>
It's good to get citizen input periodically
Are there any services for the handicapped people in Satellite Beach? I am a stroke victim and I have no feeling on my right I have a hard time walking and so on.
I do not believe in global warming but do believe in weather/climate changes. God did not make earth that fragile. I believe he knew what he was doing in spite of Washington or PhD's.
None
Please continue to aggressively seek broad based public involvement and support. Your use of this web survey was an excellent opportunity to participate. Thank you.
This survey should be redone with examples of what would be done with the opportunities, or an explanation of what plans are for each of the opportunities. This is very vague and leaves a lot of room for possibly false interpretation and assumptions

Screen 5: Stay Involved

Overall Comments (from Demographics Page)
Congratulations on a great effort!! We appreciate the opportunity to get involved in preserving and improving our wonderful city. The survey was easy to complete and very concise! Good job!
We would like to know the cost of doing some of these improvements before selecting. We need to be financially responsible.
Lived in SB for 11 years. Because the taxes are so high I will have to move when I retire. I would like to stay, enjoy the community. I am not alone.
Please, no apartments or low income housing on A1A across from Hightower Beach.
Preserve land across from Hightower park as park or play area- no commercial development, no apartments or low-income housing in that area.
This survey is a great idea
Complements on the ease of use for this website questionnaire.
Mayor Catino is the man!
I think you have made a joke out of our city of which I have been a resident of for 52 years having grown up here then raised their children in satellite beach the agenda 21 garbage and the lack of looking at all the facts of global warming .you have already wasted 35,000 dollars of tax payers money even if the oceans rising is true the fact that you think you can do anything about it when you can't even stop a street from flooding after a thunder storm and have had thirty years to fix this problem is a joke spend the money on real problems and not made up things
Please increase curb appeal of Desoto Blvd.
Funding can be contributed through significant reduction in police force and related ":toys"
Lousy user interface for survey
I love living here!
Survey may not have registered correctly. Computer was lagging from survey.
Thank you.
None
The City must remain focused on the basics, roads, sewer, drainage, recreation, fiscal responsibility achieving these goals not beautifying A1A,

Screen 5: Stay Involved

Overall Comments (from Demographics Page)
false global warming alarmism.
Save our beaches and please stop the replenishment, the tides will take care of it
Wonderful survey and citizen input forum. The City is on the correct path forward, keep 'us' moving!
I'm really glad you're doing this!
Satellite Beach is a beautiful community. Let's keep it that way.~)
Satellite Beach should be a leader in the state for environmentally sound practices by residents AND businesses.
Do not raise the millage rate any more. Rather reduce fire and police.
In addition to the preservation of beachfront, ecosystems, and our neighborhood, we should encourage businesses to establish themselves here. There is a footprint and I'd like to use that footprint and not expand to every square inch as Indian Harbor Beach has done. Thank you.
Thank you for putting this survey together!
Thank you for this opportunity to be involved. This is a great way to reach residents without having to be present at a public hearing.
I commend you on your attempt to obtain this important feedback
Thank you for taking resident comments/feedback in an effort to make Satellite Beach even better!
We need to install catch basins to keep road runoff from polluting our rivers
There are a lot of people here now that graduated school, left, and then returned to raise their own families here. This next generation will soon start doing it too. The family-friendly premise upon which this town was founded needs to be sustained and preserved for future generations.
Did not understand how to do #3 Strategies
Call anytime for further input. Charlie Graham 321-508-0812
I love this city because of the small community atmosphere and the natural environment available to us. I very much appreciate the efforts of our city leaders to keep our city a fine place to live.
STOP THE BUILDING...Lets make Satellite Beach a Beautiful & Safe Community for a Lifetime. Bike paths and sidewalks for all!!
I implore city leaders to make this survey more readily available... if only it were mandatory....

Screen 5: Stay Involved

Overall Comments (from Demographics Page)
The top priority for me would be to have a sidewalk on the west side of A1A between Shearwater Parkway and Atlantic Plaza
My greatest fear is that you will use this to hire more people and raise taxes. We moved here from Ohio for family and lower taxes.
We are a full time resident and love the community
nice survey
No additional beachfront high rises.
I'm not real savvy on all the technical stuff. The folks who have kept us going all the 50 yrs. I've been here, have done a wonderful job of keeping Sat Bch a great place to live in safety and comfort. Thank you all.
Thanks for the opportunity for input. Increased taxes to achieve some of these initiatives is fine by me.
Jackson Avenue needs to be beautified, we have 3 public schools on this road, and shouldn't it be a nice reflection of our charming little town?
It's a good thing to address the sustainability of our community. The Smith family strongly supports this process.
We should also encourage businesses to install electric car charging stations. Electric cars are significantly more environmentally friendly and use a fraction of the energy of conventional cars.
Thanks for continuing to look toward the future
Quit buying into the global warming nonsense based on junk science. Stop spending our money on stupid sea level rise studies based on the global warming hoax.
Keep this a safe place to live, keep it family friendly, and find a way to improve business growth on A1A, it is horrible...
I think you guys are doing a great job. One comment, is it really necessary to have public works dept. employees work on Sunday?
Nice job in putting this together!
Wish we had a town center or main street. Would love to see dilapidated properties on Cassia purchased as they become available to create a main street with small, local businesses.
It's a complete waste of taxpayer dollars to do anything related to alternative energy or global warning and we will vote and/or campaign vigorously against any city politician or employee who supports such nonsense.
We would prefer that our city be proactive rather than wait for tragedy to strike. Seems like preventative measures would be less expensive

Screen 5: Stay Involved

Overall Comments (from Demographics Page)
than reacting after the fact.
I love living here and hope that we can maintain our small town feel.
The road on Debra Court was repaved some time ago and quickly fell back into disrepair. Because of the way the road was designed and laid out, my property suffers excess erosion at the concrete interfaces (guttering?) between my yard and the roadway. In addition, due to roadway design, vehicles, including Waste Management Heavy trucks drive over the concrete guttering-edging at the yard-roadway interface and destroy the concrete. No other neighbors have to suffer this; it is poor design. I feel that the City should have to provide me new concrete guttering between my yard and the street to ensure equitable treatment for my property compared to the other residents on the street who do not have to suffer broken concrete due to short sighted design.
The City should replace the concrete guttering between my yard and the roadway. Due to poor Civil Engineering roadway design, my concrete guttering is always cracked from water erosion and from vehicles, including large Waste Management Trucks driving over the concrete and destroying it. This is a roadway design flaw that my neighbors do not have to suffer.
I live, work and own property in Satellite Beach
Hope you're going to post the comments rec'd and the number of people who participated.
As per the Florida Green Book (Design criteria for residential communities), The south ends of the streets Atlantic, Palm, Hibiscus and Ocean are improperly terminated dead ends. As per the green book, dead end streets must be terminated with "hammer head" or "cul de sac" type turnarounds. These designs are intended to facilitate service and emergency vehicles to turn around without the need to use private driveways. The use of private driveways is extremely unsafe and could place the city in a legally liable situation. If the current placement of the existing bollards were reoriented to the north-south ends of the hammer head pavement area as opposed to the current east-west, at the end of street, this would comply with the green book and facilitate emergency/service vehicle turn around. Current placement of the barriers has also become a trash/debris collection area and is an eyesore to the city. I also intend to escalate this issue to the county and state level if not resolved at the city level. I fail to understand how the current implementation of the existing barriers were ever approved by the city, county or state engineers. If any further clarification is needed, please feel free to contact me. Thank you.
Batensmith@aol.com
Separate issue - I'd the city to offer the option to purchase a permit for bringing dogs on the beach.
We don't need more government

Screen 5: Stay Involved

Overall Comments (from Demographics Page)
I enjoy this city just the way it is right now,
Plant large shade trees throughout the city and parks that will grow with the city and provide beauty and shade for generations to come.
Increase resident friendly access to beach, river and islands,
Native landscaping practices encouraged including government buildings.
Native landscaping practices encouraged including government buildings. Underground utilities should be encouraged.
Continue to support our Recreation Department with affordable programs for young and old.
Put a campground of about 10 sites across from Publix. Short stays for about \$50 a night.
Keep improving recreational facilities and increase fees on out-of-town users.
Keep taxes high so that undesired people don't move to our community. Also keep a strong police presence to detour crime and keep our area safe and comfortable for families.
Removing muck from city canals that was deposited there from years of poor/no stormwater mgmt.
Whatever came of the effort to accept/adopt alternative/electric transportation within the city using electric golf cart style means of transportation
Improve street lighting
Realistically the only meaningful LOCAL "mitigation" over that timeframe would be to minimize economic impacts of these predictable GLOBAL impacts whose locations are unknown e.g. initiate local incentives for global disaster recovery companies, disaster insurance companies, water purification companies, and defense firms, all of which will certainly become more valuable if we continue to fail to reduce carbon emission substantially. Of course such local action would all be just selfish fiddling while Rome burns. What we really need to do is just stop burning so much fossil fuel. We can make personal choices to do so and we can push government to do so as Germany, England and others have already done.
Provide a boat holding tank pump out station. This would help preserve our lagoon as the closest pump out station is at Telemar Bay Marina. Since that station was installed with all private money they can charge whatever amount they want and charge exorbitant fees. This I'm sure drives boaters to dump raw sewage straight into the river rather than pay the fee or travel to Melbourne marina (the only other reasonably priced local pump out station \$3 vs \$30)
more bike friendly

<b>Overall Comments (from Demographics Page)</b>
Upgrade drainage fully in all of Satellite Beach
Reinforce infrastructure such as storm drains & power lines. We have plenty of business. We need the basics back.
let's bring in small windmills, we have strong winds along our shore
No more building. Encourage businesses to upgrade the look of the property. Or bulldoze and build on existing space, stop build on the little green we have left.
More pedestrian/bike friendly areas and protection

Appendix  
Metroquest Response Report

		Statistics	
		<u>Count</u>	<u>Total</u>
<b>Group: Demographics</b>			
<b>Variable:</b>	<b>S5 P0 T0 Q01 Age</b>		<b>537</b>
	<b><u>Category:</u></b>		
	09	1	
	1019	3	
	2029	20	
	3039	74	
	4049	92	
	5059	165	
	60 and over	182	
<b>Variable:</b>	<b>S5 P0 T0 Q02 Affiliation</b>		<b>542</b>
	<b><u>Category:</u></b>		
	Business Owner	5	
	FullTime Resident	478	
	No Affiliation	12	
	Property Owner	36	
	Seasonal Resident	11	

# Community Rankings:

Climate Change Resiliency

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Group: **Priorities\_A**

<b>Overall Rank</b>	<b>Avg Position</b>	<b>Times Ranked</b>	<b>Item Name</b>
1	1.82	405	S2_P4_T0_Loss_of_utilitiespower
2	1.87	374	S2_P2_T0_Coastal_Erosion
3	2.00	392	S2_P3_T0_Flooding
4	2.03	32	S2_P1_T0_None
5	2.04	398	S2_P5_T0_Storm_Surge
6	2.06	225	S2_P6_T0_Sea_Level_Rise

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Group: **Priorities\_B**

<b>Overall Rank</b>	<b>Avg Position</b>	<b>Times Ranked</b>	<b>Item Name</b>
1	2.29	413	S4_P7_T0_Restore_Lagoon
2	2.35	417	S4_P2_T0_Beach_Preservation
3	2.70	361	S4_P6_T0_Preserve_neighborhoods
4	2.73	22	S4_P5_T0_Do_Nothing
5	2.94	284	S4_P4_T0_EcoFriendly
6	2.95	315	S4_P1_T0_Vibrant_Business_Community
7	3.05	175	S4_P8_T0_Increase_River_Access
8	3.05	260	S4_P3_T0_Improve_A1A

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# Community Ratings:

Climate Change Resiliency

	Count	Avg	Rating Statistics				Std
			Min	Median	Max	Mode	
<b>Group: D_CoastalErosion</b>	<b>1416</b>	<b>3.42</b>	<b>1</b>	<b>4</b>	<b>5</b>	<b>5</b>	<b>1.57</b>
<b>Rated: S3_P2_T1_Armoring</b>	<b>278</b>	<b>3.07</b>	<b>1</b>	<b>3</b>	<b>5</b>	<b>3</b>	<b>1.43</b>
Score							
5	60						
4	55						
3	65						
2	40						
1	58						
<b>Rated: S3_P2_T2_Dune_Protection</b>	<b>296</b>	<b>4.60</b>	<b>1</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>0.80</b>
Score							
5	218						
4	51						
3	17						
2	6						
1	4						
<b>Rated: S3_P2_T3_Beach_Renourishment</b>	<b>289</b>	<b>3.39</b>	<b>1</b>	<b>4</b>	<b>5</b>	<b>5</b>	<b>1.50</b>
Score							
5	97						
4	56						
3	54						
2	27						
1	55						
<b>Rated: S3_P2_T4_Redirect_Development_I</b>	<b>293</b>	<b>4.00</b>	<b>1</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>1.28</b>
Score							
5	150						
4	59						
3	43						
2	17						
1	24						
<b>Rated: S3_P2_T5_No_Action_Coastal_Eros</b>	<b>260</b>	<b>1.83</b>	<b>1</b>	<b>1</b>	<b>5</b>	<b>1</b>	<b>1.25</b>
Score							
5	19						
4	13						
3	31						
2	39						
1	158						

	Count	Avg	Rating Statistics				Std
			Min	Median	Max	Mode	
<b>Group: D_Flooding</b>	<b>1485</b>	<b>3.55</b>	<b>1</b>	<b>4</b>	<b>5</b>	<b>5</b>	<b>1.33</b>
<b>Rated: S3_P3_T1_Stormwater_Capacity</b>	<b>309</b>	<b>4.23</b>	<b>1</b>	<b>4</b>	<b>5</b>	<b>5</b>	<b>0.93</b>
Score							
5	149						
4	106						
3	37						
2	11						
1	6						
<b>Rated: S3_P3_T2_AtRisk_Properties</b>	<b>283</b>	<b>2.41</b>	<b>1</b>	<b>2</b>	<b>5</b>	<b>1</b>	<b>1.35</b>
Score							
5	33						
4	25						
3	68						
2	57						
1	100						
<b>Rated: S3_P3_T3_Install_Pumps</b>	<b>299</b>	<b>3.51</b>	<b>1</b>	<b>4</b>	<b>5</b>	<b>3</b>	<b>1.25</b>
Score							
5	81						
4	78						
3	82						
2	29						
1	29						
<b>Rated: S3_P3_T4_Stormwater_Reuse</b>	<b>299</b>	<b>3.83</b>	<b>1</b>	<b>4</b>	<b>5</b>	<b>5</b>	<b>1.24</b>
Score							
5	119						
4	77						
3	57						
2	24						
1	22						
<b>Rated: S3_P3_T5_Roadway_Upgrade</b>	<b>295</b>	<b>3.66</b>	<b>1</b>	<b>4</b>	<b>5</b>	<b>4</b>	<b>1.13</b>
Score							
5	79						
4	94						
3	84						
2	19						
1	19						

	Count	Avg	Rating Statistics				Std
			Min	Median	Max	Mode	
<b>Group: D_LossOfUtilitiesPower</b>	<b>1185</b>	<b>3.40</b>	<b>1</b>	<b>4</b>	<b>5</b>	<b>5</b>	<b>1.54</b>
Rated: S3_P4_T1_Relocate_Utilities	308	3.44	1	4	5	3	1.28
Score							
5	77						
4	81						
3	84						
2	31						
1	35						
Rated: S3_P4_T2_Underground_Utilities	330	4.40	1	5	5	5	0.99
Score							
5	217						
4	58						
3	36						
2	9						
1	10						
Rated: S3_P4_T3_Alternative_Energy	311	3.57	1	4	5	5	1.49
Score							
5	133						
4	39						
3	57						
2	36						
1	46						
Rated: S3_P4_T4_No_Action_Utilities	236	1.72	1	1	5	1	1.09
Score							
5	8						
4	13						
3	29						
2	41						
1	145						
<b>Group: D_NoVulnerabilities</b>	<b>50</b>	<b>3.08</b>	<b>1</b>	<b>3</b>	<b>5</b>	<b>1</b>	<b>1.56</b>
Rated: S3_P1_T1_Education	17	2.24	1	1	5	1	1.52
Score							
5	2						
4	2						
3	3						
2	1						
1	9						
Rated: S3_P1_T2_Disaster_Response_Only	17	3.59	1	4	5	4	1.37
Score							
5	5						
4	6						
3	2						
2	2						
1	2						
Rated: S3_P1_T3_Do_nothing	16	3.44	1	3	5	3	1.50
Score							
5	6						
4	1						
3	6						
1	3						

	Count	Avg	Rating Statistics				Std
			Min	Median	Max	Mode	
<b>Group: D_SeaLevelRise</b>	<b>795</b>	<b>3.49</b>	<b>1</b>	<b>4</b>	<b>5</b>	<b>5</b>	<b>1.56</b>
<b>Rated: S3_P6_T1_Policy_Considerations</b>	<b>161</b>	<b>4.23</b>	<b>1</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>0.96</b>
Score							
5	84						
4	40						
3	29						
2	6						
1	2						
<b>Rated: S3_P6_T2_Impact_Areas</b>	<b>164</b>	<b>4.41</b>	<b>1</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>0.84</b>
Score							
5	96						
4	47						
3	17						
2	1						
1	3						
<b>Rated: S3_P6_T3_Redirect_Development_&amp;</b>	<b>162</b>	<b>4.26</b>	<b>1</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>1.03</b>
Score							
5	94						
4	31						
3	25						
2	9						
1	3						
<b>Rated: S3_P6_T4_Protect_Public_Infrastru</b>	<b>163</b>	<b>2.53</b>	<b>1</b>	<b>2</b>	<b>5</b>	<b>1</b>	<b>1.54</b>
Score							
5	27						
4	23						
3	27						
2	19						
1	67						
<b>Rated: S3_P6_T5_No_Action_Sea_Level_R</b>	<b>145</b>	<b>1.85</b>	<b>1</b>	<b>1</b>	<b>5</b>	<b>1</b>	<b>1.34</b>
Score							
5	12						
4	12						
3	12						
2	15						
1	94						

	Count	Avg	Rating Statistics				Std
			Min	Median	Max	Mode	
<b>Group: D_StormSurge</b>	<b>1462</b>	<b>3.44</b>	<b>1</b>	<b>4</b>	<b>5</b>	<b>5</b>	<b>1.44</b>
<b>Rated: S3_P5_T1_Flood_Insurance</b>	<b>300</b>	<b>3.77</b>	<b>1</b>	<b>4</b>	<b>5</b>	<b>5</b>	<b>1.32</b>
Score							
5	124						
4	64						
3	59						
2	24						
1	29						
<b>Rated: S3_P5_T2_Raise_Elevations</b>	<b>304</b>	<b>3.47</b>	<b>1</b>	<b>4</b>	<b>5</b>	<b>3</b>	<b>1.21</b>
Score							
5	72						
4	85						
3	87						
2	34						
1	26						
<b>Rated: S3_P5_T3_Redirect_Development_&amp;</b>	<b>304</b>	<b>3.82</b>	<b>1</b>	<b>4</b>	<b>5</b>	<b>5</b>	<b>1.29</b>
Score							
5	127						
4	71						
3	56						
2	24						
1	26						
<b>Rated: S3_P5_T4_Increase_Shoreline_Setb</b>	<b>305</b>	<b>3.85</b>	<b>1</b>	<b>4</b>	<b>5</b>	<b>5</b>	<b>1.25</b>
Score							
5	130						
4	68						
3	56						
2	32						
1	19						
<b>Rated: S3_P5_T5_No_Action_Storm_Surge</b>	<b>249</b>	<b>2.04</b>	<b>1</b>	<b>1</b>	<b>5</b>	<b>1</b>	<b>1.37</b>
Score							
5	24						
4	19						
3	36						
2	33						
1	137						
<b>Grand Totals:</b>	<b>6393</b>	<b>3.46</b>	<b>1</b>	<b>4</b>	<b>5</b>	<b>5</b>	<b>1.48</b>