

Adapting to Sea Level Rise Workshop Feedback, March 2, 2021

GROUP 1 - Facilitator: Deeksha

DOWNTOWN

1. VISION + APPROACH

What is your vision for this area in the future, recognizing its vulnerabilities?
What assets are most important to you? (Identify these on the maps)
What should be our general approach to this area?

VISION

Type in your comments here

VULNERABLE ASSETS

Downtown at 10in. SLR - 100 Year Flood



Downtown at 20in. SLR - 100 Year Flood



Downtown at 40in. SLR - 100 Year Flood



APPROACH

Approach to the Shoreline



NOTES

NOA Tide gauge data is not showing rising sea levels
Docks and access to public transportation is important
Progressive addition for SLR
Don't need to add everything today.
Work back from the impact and long term plan is essential. Do it when the problem intensifies.

2. CO-BENEFITS

What level of investment are you willing to make here?
What additional benefits can we achieve? (drag and drop)

CO-BENEFITS



Public Access



Transportation



Redevelopment/
Revitalization

Potential Co-Benefits



Ecological Benefits



Recreational Use



Cultural/Historic
Preservation



Community
Character

NOTES

Public access
Coordination with sanitation and other utilities
Transportation
Residence serving business

GROUP 2 - Facilitator: Christine

GREENWOOD COVE AREA

1. VISION + APPROACH

What is your vision for this area in the future, recognizing its vulnerabilities?
What assets are most important to you? (identify these on the maps)
What should be our general approach to this area?

VISION

Type in your comments here

VULNERABLE ASSETS

Greenwood Cove Area at 10in. SLR - 100 Year Flood



Greenwood Cove Area at 20in. SLR - 100 Year Flood



Greenwood Cove Area at 60in. SLR - 100 Year Flood



APPROACH



NOTES

Elevate the road and protect the shopping center and the housing in Bel Aire. Recover marsh land is a possibility. Have to plan on elevating Tiburon Blvd specifically. Possibly tidal gates on storm drains. See if land could be increased and/or use levees. Elevating Tiburon Blvd could be a levee to protect development behind. Building a levee to protect Cove apts might protect everything and restoring marsh land.

2. CO-BENEFITS

What level of investment are you willing to make here?
What additional benefits can we achieve? (drag and drop)

CO-BENEFITS



Potential Co-Benefits



NOTES

Type in your comments here

GROUP 3 - Facilitator: Cristina

DOWNTOWN

1. VISION + APPROACH

What is your vision for this area in the future, recognizing its vulnerabilities?
What assets are most important to you? (Identify these on the maps)
What should be our general approach to this area?

VISION

Terrible to lose the downtown, what is belvedere doing? - flooding already at woodlands
Concerned about coordination with Belvedere - We're all in this together - water flows through ark row and area beach through to lagoon. - Not a Tiburon/Belvedere problem - it's a coastal problem.
Savings by coordinating .
Regional destination - priority not only to local area but also the bay area issue.
Priorities: VIEWS of rest of the bay along the edges. Historical significance of structures - railroad depot, ark row, others. recreation
- connection to angel island ferry , sausalito, etc.Important water access to these areas Preserve open space - public docks - areas - public docks, grassy areas and knolls, for every to enjoy.

VULNERABLE ASSETS

Downtown at 10% SLR - 100 Year Flood



Downtown at 20% SLR - 100 Year Flood



Downtown at 30% SLR - 100 Year Flood



APPROACH



NOTES

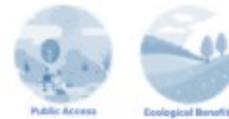
Risk of privatization in areas that are improved - if we are using public resources - we want to make sure it remains public. and public resource.

Infrastructure is also shared - flooding affects water supply sewer electric

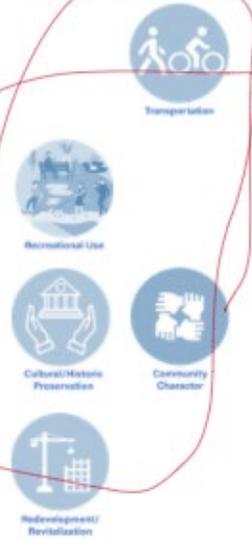
2. CO-BENEFITS

What level of investment are you willing to make here?
What additional benefits can we achieve? (drag and drop)

CO-BENEFITS



Potential Co-Benefits



NOTES

All important and need to be included equally in the planning. - Inter disciplinary!

3. SOLUTIONS + RESPONSIBILITIES

Who should be responsible for adapting which assets?
Are there partners we can tap for support?

APPROACH



RESPONSIBILITIES



Shared - private sector cannot solve the problem - financially it cannot be just the government either - and gov't can

PARTNERS

Type in your comments here

NOTES

Type in your comments here

4. TIMEFRAME + STAGES

How long should our adaptation last?
Should we think in terms of stages? If so, what level of impact can you live with that might trigger moving to the next stage?

TIMEFRAME



STAGING



NOTES

Type in your comments here

Downsides at 30in SLR + 100-Year Flood (Near Term)



Downsides at 20in SLR + 100-Year Flood (Mid Term)



Downsides at 80in SLR + 100-Year Flood (Long Term)



GROUP 4 - Facilitator: Bob

BLACKIE'S PASTURE

1. VISION + APPROACH

What is your vision for this area in the future, recognizing its vulnerabilities?
 What assets are most important to you? (Identify these on the maps)
 What should be our general approach to this area?

VISION

Protect critical public infrastructure (Hwy 131/Tib. Blvd.) and sewage treatment plant.
 Plan for a shift in passive recreational uses at Blackie's Pasture as inundation occurs.
 Consider the costs vs. benefits of protecting home sites immediately west of Blackie's

VULNERABLE ASSETS

Blackie's Pasture at 10m SLR + 100 Year Flood



Blackie's Pasture at 20m SLR + 100 Year Flood



Blackie's Pasture at 40m SLR + 100 Year Flood



APPROACH

Approach to the Shoreline



NOTES

Does sewer district have plans to eliminate or expand plant?
 Protecting developed assets more important than preserving Blackie's Pasture rec. use.
 Worthwhile protecting homes, particularly next to Blackie's? Can homes be built over the water with changes in building codes?

2. CO-BENEFITS

What level of investment are you willing to make here?
 What additional benefits can we achieve? (drag and drop)

CO-BENEFITS



Recreational Use
 Reserve more open space



Ecological Benefits

Potential Co-Benefits



Transportation



Public Access



Cultural/Historic Preservation



Community Character



Redevelopment/Revitalisation

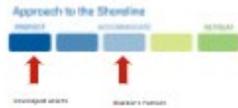
NOTES

Level of investment:
 Sewage treatment plant - other options to retaining in place?
 Tiburon Blvd. critical investment

3. SOLUTIONS → RESPONSIBILITIES

Who should be responsible for adapting which assets?
 Are there partners we can tap for support?

APPROACH



RESPONSIBILITIES



PARTNERS

Caltrans - HWY 131
 Richardson Bay Sanitation District

NOTES

Cost of saving homes next to Blackie's may not warrant the cost of adaptation measures.

4. TIMEFRAME → STAGES

How long should our adaptation last?
 Should we think in terms of stages? If so, what level of impact can you live with that might trigger moving to the next stage?

TIMEFRAME



STAGING



NOTES

Most improvements in the area will be needed in the longer term (80+ SLR).

Blackie's Pasture at 10in. SLR + 100 Year Flood



Blackie's Pasture at 20in. SLR + 100 Year Flood



Blackie's Pasture at 50in. SLR + 100 Year Flood



GROUP 5 - Facilitator: Peter W

DOWNTOWN

1. VISION + APPROACH

What is your vision for this area in the future, recognizing its vulnerabilities?
What assets are most important to you? (Identify these on the maps)
What should be our general approach to this area?

VISION

A vital downtown

VULNERABLE ASSETS

Downtown at 10in. SLR + 100-Year Flood



Downtown at 20in. SLR + 100-Year Flood



Downtown at 40in. SLR + 100-Year Flood



APPROACH

Approach to the Shoreline



NOTES

Always thought of us (Tiburon & Belvedere as one.)
We share the same shopping areas and access.
Belvedere has begun taking steps to protect lagoon & development from storm surges
Last 100-yr storm was in early 80s
As a result they raised riprap on San Rafael and diverted water to lagoon, and put in new & larger pumps. They lower lagoon by 2-3ft during rainy season.
Current flooding issue is at Tiburon Blvd and Beach Rd because the flood gates don't get closed

We have expensive flood gates, but if people don't operate it correctly during king tides/at critical times, it won't work
You can protect downtown Tiburon, but is it worth it if you lose access to the Bayfront?
Challenged by limited access - two points of entry

Downtown has been affected by pandemic and loss of ferry services
Love Tiburon and want it to last, but worried about people/business not returning

Tiburon was warehouses and trash and marsh in the early 70s, but then you got to Main Street and it was great. Fun. Where's the fun in what it is now?

If downtown's going to be attractive, who's it going to be attractive to?

Shoreline Park is now packed on weekends, and Main Street is hopping on the weekends with outdoor dining.

2. CO-BENEFITS

What level of investment are you willing to make here?
What additional benefits can we achieve? (drag and drop)

CO-BENEFITS



Public Access



Recreational Use

Potential Co-Benefits



Ecological Benefits



Transportation



Cultural/Historic Preservation



Community Character



Redevelopment/Revitalization

NOTES

Type in your comments here

GROUP 6 - Facilitator: John G + Peter T

BLACKIE'S PASTURE

1. VISION + APPROACH

What is your vision for this area in the future, recognizing its vulnerabilities?
What assets are most important to you? (Identify these on the maps)
What should be our general approach to this area?

VISION

Focal Point for entire town
Popular open space recreational area
Transportation constrained by geography.
Address vulnerable housing
Past developments pressured use of active recreation. Passive recreation (beach) was preserved.
Lowland as a natural break between Tiburon Blvd. and housing developments

VULNERABLE ASSETS

Blackie's Pasture at 10% SLR + 100-Year Flood



Blackie's Pasture at 20% SLR + 100-Year Flood



provide for trail parking and access to the trail

reach resources to learn for ongoing water level
used to go to see a sign containing during
winter

Blackie's Pasture at 50% SLR + 100-Year Flood



APPROACH



NOTES

Maintain the natural features
Retreat strategy
moving paths to accommodate change
Bay trail - maintain this connection

NATURE BASED ADAPTATION

2. CO-BENEFITS

What level of investment are you willing to make here?
What additional benefits can we achieve? (drag and drop)

CO-BENEFITS

Potential Co-Benefits



Ecological Benefits

Transportation



Recreational Use

Public Access



Cultural/Historic Preservation

Community Character



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NOTES

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