Boardwalk Report

I was asked to submit a report by the President of Gateway Isle Association, Mr. Brian Koelbel on the security aspects of the proposed Boardwalk to be built on the marshlands of the Bass River.

This report is based on Crime Prevention Through Environmental Design (CPTED) known as CPTED (Sep-TED), concepts and strategies of ***"Improving the Quality of Life for the Community."***

The main question is, "Will the proposed Boardwalk Improve the ***Quality of Life*** for the Community?" For discussion purposes, the community in question is specific to those families living on the Bass River across from the marsh.

In my opinion, as a security and former law enforcement (retired) professional and based on my review of this property as also based on my living a block away, "NO," it will not improve the ***Quality of Life*** for the Community.

Additionally, consider SPACE and take into consideration the families living along the Bass River who each have private space on their decks and in their yard areas.

- **Private Space** is defined as space restricted for use by residents of a single dwelling unit, their invited guests, and service people, with access generally controlled by locks and other physical barriers. Unauthorized use is always challenged when the opportunity for challenge presents itself.

The proposed Boardwalk will take away this private space and turn the area into semi-private space.

- **Semi-Private Space** is defined as space restricted for use by residents, guests, and

service people on legitimate assignments. In multi-family housing, semi-private space is usually protected by security officers (or doormen), locks or other forms of physical barriers. Strangers can be expected to be challenged as potential trespassers.

What I'm saying is when individuals walking up and down the proposed Boardwalk, they will be looking over into the area across from the marsh and on to the neighboring decks and yards. The private space of these families is lost.

If fishing is allowed off of the proposed Boardwalk, the fisherman will be staring across the way, making families feel uncomfortable and upset because a stranger is observing them. Their solution to this will be to install a 6' or 8' white vinyl fence or a wooden fence as a means of getting their private space back. Some of these families may even sell their homes in disgust.

I have several questions. Assume that several people decide to walk on the proposed Boardwalk and have a few beers and then discard the bottles in the marsh. Who will be cleaning up this area? Will it be checked by someone or does the association have to do this for the town?

Peeping Toms may also be an issue. The police may get a call from someone in the neighborhood that a man using binoculars is looking toward their house. When the police respond, the man says that he was bird watching.

How will this area be patrolled? Will wireless cameras be installed for the safety of those walking the proposed Boardwalk? Teenagers on bicycles riding up and down the Boardwalk may also be a problem. Let's assume an elderly woman is injured at the far end of the Boardwalk and police and EMS must walk a mile or two to get to the end of the boardwalk to respond.

Additionally, I checked with a local realtor who told me that based on what he has read in my report he feels property values will go down. If this is the case, I recommend to the homeowners in this neighborhood that their homes be reassessed to see if their taxes can be reduced because of lower home values. The result will be less tax dollars paid to the Town of Yarmouth.

An inspection was made of the Boardwalk in Dennis, which overlooks the tide coming and going, a small beach with benches and a small parking lot. No homes in the area are affected by this Boardwalk. It is a totally pleasant environment. This is not what the neighborhood along the Bass River will be getting.

It's my understanding the "Drive-in Site Utilization Committee," a group of 2 Town Reps, 3 Real Estate Agents, a Builder and a restauranteur proposed this complex in the first place and have a financial interest in this complex. It's also my understanding that they don't live in the Bass River neighborhood so the Quality of Life concepts explained by a national and international criminologist are not their concern. They also are not concerned about de-valuing property. Don't we have enough restaurants on Cape Cod? Why do we need one in the drive-in area?

The largest assets the community of folks living on the Bass River have is the sunset and the colors of the sky. It's a spectacular sight! This is a part of the community's Quality of Life and actually *why* they bought their houses in the first place.

I also have a concern about the height of the Boardwalk; because of the full moon and high tide in the marsh my guess is it will be 15 to 25 inches above the top of the marsh. I mention this because coyotes are living in the marsh and do swim to shore and walk down the streets. My point here is the height will also be a problem and obstruct the visibility of the Bass River

Community and thereby have a negative effect in its design. I have no information at this time if there will be lights on the proposed Boardwalk. If there are lights, the glare could be a problem for residents.

Environmental Security

Elements of the environment can inadvertently become a generator of crime. Specifically, the location and relationship of certain people generate the interaction of people, some of whom will be victims and some offenders.

Environmental crime generators not only play a role in the environmental crime phenomena as the actual generator but can be the cause factor of opportunistic crimes. One could argue there is very little crime in that area now. This is true based on a very small population of people/visitors, but this will change with the proposed Boardwalk.

A word on Environmental Security - you have a group concerned with Territoriality (the community) and also concerned with standards of behavior and a "Natural Evolution of Proactive Human Behavior and Environmental Change." This group is concerned about the effects on the Environment, about a decrease in property values and the negative effects of the proposed Boardwalk. Environmental Security should be the number one concern of the Town of Yarmouth, but instead it is only the concern of that particular community.

Brian, you asked me if I was available to go to court or attend town meetings on this issue. My answer is, "Yes I am."

If you have any questions, please do not hesitate to contact me.

LAWRENCE J. FENNELLY

Security Consultant

Shade Attractive Safety issues

EVOLVE.

(1) Do you think this Boardwalk will improve the quality of life for the families who live along the river.

Landscape Security

(2) 3 Options – Trail & Pathway

No Higher than 3'

First Tree Grade 7 &

So there is a clearence of Natural Surveillance

(3) Appears to have Hidden Spots

Look Outs or Bumpouts

~~Curves~~ ~~Cancel~~

Cancel themselves

Security Professional - C&H academy

8 MUSIC BOWLE OFF RIVER

(9) PLAY GROUND 40 — 3 800

3 Dragon articles — 3 300

6 W, P — 1 500

6 Deliveries

C. P. P — H. P.

Plant Rubber

(4) Landscape Restoration

Landscape Security

(5) Type of lighting in parking lot - level of lights

(6) Speed Bumps in parking lot

Safety Issue 15 MPH

(7) Trash - Music Negative Impact

Williams, Kathleen

From: JOSEPH GUIDE <joeguide@comcast.net>
Sent: Tuesday, May 30, 2017 1:04 PM
To: Williams, Kathleen
Subject: Re: Riverwalk Park & Boardwalk

Town of Yarmouth, regarding Riverwalk Park and Boardwalk:
We live on 14 Heritage Dr, a short distance from Seagull Beach.
We would like to have this boardwalk constructed. We believe it would be a positive amenity to this neighborhood area for walking and viewing nature. The boardwalks on the northern bay side of the Cape are beautiful. We believe the proposed boardwalk on our side could be just as nice. It would make our area more desirable to visit, increasing market values and decreasing vacancies. This area along Parker River has been busy for years with boats going back and forth. Our opinion is the addition of a walkway along the river is no worse than boats already there and a lot nicer for entire area use. Thank you. Joe Guide, Donna Federico, Bonnie Reusing, Adam Reusing.

Sent from XFINITY Connect Mobile App

-----Original Message-----

From: kwilliams@yarmouth.ma.us
To: info@guiderea.com
Cc:
Sent: 2017-05-30 11:33:00 AM
Subject: FW: Riverwalk Park & Boardwalk

Hi Joe,

There will be two meetings for the Riverwalk Park/Boardwalk Feasibility Study tonight May 30th at 6 PM in the Hearing Room at Town Hall and June 7th at 6:30 in the Hearing Room (see attached notice). Both presentations will be the same. If you are unable to make either meeting, please feel free to send me something in writing and I can have it read at the June 7th meeting.

Thanks and sorry for the short notice on the meeting changes,
Kathy

Kathy Williams, PE
Yarmouth Town Planner
1146 Route 28
South Yarmouth, MA 02664-4492
(508) 398-2231 Ext 1276
kwilliams@yarmouth.ma.us

*. Rec'd 6/7/17 KMG

Gmail

Antonia Cabot <tonicabot1@gmail.com>

Fw: Drive In Meeting

1 message

karen@citybythesea.com <karen@citybythesea.com>
To: Toni Cabot <tonicabot1@gmail.com>

Wed, Jun 7, 2017 at 12:12 PM

From: karen@citybythesea.com
Sent: Wednesday, June 7, 2017 11:21 AM
To: Brian Koelbel
Subject: Drive In Meeting

Hi Brian,

I'm not sure I'll be able to make tonight's meeting. Plus, if it's a rehash of the last two, my brain is still numb from the details.

Here are my thoughts (for what it's worth).

Why not hold these meetings when the majority of the people who live here are actually on Cape – a weekend. And by this point in time, cannot they not see that the resounding opinion is to NOT have this happen? Only 7 people at the meeting voted to more forward. If more people were for the project, then they would have and should have show up. I think there's already enough proof that it's not a good plan and they should leave this beautiful land alone. Do people think this is the lesser of some other evil that might be planned down the road and better go with this plan? I just don't get it.

Not only is this plan not a revenue source, it's a huge expense to the tax payers upfront and in maintaining the park. (PS – I've been to three spectacular Riverwalks: Providence, San Antonio and Oklahoma City. You can actually walk*along the river*. Riverwalk in this case, is a misnomer since the boardwalk is not actually along the river – thankfully.

This plan is fraught with obstacles that need to be addressed and overcome– security, safety, noise, lighting, upsetting the ecosystem, trash, crime, parking, increased traffic on a road that's already gridlocked from May to October, invading neighbors' privacy who live directly on the river, added river traffic...I just don't see an upside to this.

Instead of beating a dead horse, we should either be discussing either a better plan or agree to leave that land alone in perpetuity and move on to the more important issues that Yarmouth has.

Are we supposed to receive minutes from the Gateway Isles meeting? I haven't received anything. When is the picnic? Is that a go?

Karen TaylorHowell
50 Neptune

6/7/17 Rec'd
KMG

June 6, 2017

Brian Koelbel
President
Parker River Marsh Advocates

Dear Brian:

I am a year-round resident and taxpayer in Yarmouth Port. I retired to the Cape more than four years ago. I spend most of my leisure time enjoying the beauty of Cape Cod, beaches, ponds, rivers, marshes. I am a birder but enjoy all aspects of nature. I often visit the area of the Parker River Marsh, not so much for the beach but for the beauty of the marsh.

The Parker River Marsh is important, for its beauty, of course, but also as a home for a wide variety of wild things, fish, crabs, many birds including the osprey that nest there every year. The marsh serves as a feeding ground and a nursery. A boardwalk to the beach would have a very negative impact on this valuable area. Just the construction activity alone would be destructive to the marsh; the foot traffic, noise, lights and trash from those who would use the boardwalk would likely cause major disturbances to the wildlife that need this marsh. And once it is gone, it will be impossible to replace.

I hope that your committee will be successful in preventing the long boardwalk from being constructed.

Sincerely,

Andrea Ceselski
18 Warren Road
Yarmouth Port, MA 02675

DISUC

Rec'd by email 6/9/17
Read on 6/7/17

I am Cathy Romboli, my husband Mark and I would like to address issues raised and voice our support for the overall concept of the Riverwalk Park and board walk

We are full time residents and local home owners (Capt's Village). We believe the conversion of this location into a park and boardwalk is a positive step forward for the town. This conversion of an unsightly location will create green space, improve the look of the location, create environmental restoration and provide a location for both town residents and visitors to enjoy the inlet and existing marshland. A previous study concluded that a marina wasn't economical feasible for the location which has sat vacant for many years. With the new Pirates museum across the street; planned rebuild of the Parker's river bridge and improvements to the channel why not continue with this proposed improvement. This green space site falls with the concept of the overlay bylaw was passed at town meeting a couple of years ago and follows the purpose for which this land was approved purchase ~~ 1985 for recreational use.

This is not currently a site for future building or other commerce. It is a site that will be attractive under any of the three proposed options. We choose plan Riverwalk Park proposal "C". Our strongest concern is turning into the park from Rte. 28 (traffic flow) from either direction. No regulation requires that open green space be utilized for economic development or revenue generation.

We oppose that attitude to leave the location as is or to postpone a decision about its use. Postponement of utilization of this site as others have proposed only allows the negative pushback attitude to prevail at this site as it has in other areas along the route 28 corridor. What other utilization use is there for the former drive in location? Any utilization should follow the recreational use agreed to at town meeting when the location was purchased.

We support the boardwalk; I'd suggest starting with Option 1 the loop; document any problems, see if the problems can be resolved and then expand the boardwalk to Seagull beach. We are not opposed to the extension of the boardwalk to Seagull beach.

Those who oppose repeat old unproven concerns of trash, crime seem convinced that keeping Yarmouth as it might have been as Patti Page's "old cape cod" are willing to sacrifice any new initiative, proposal or progress to a NIMBY mentality. We support the logic of examining other cape boardwalks for issues and opportunities in the proposals.

We have concerns about the opponents; are they full time residents? Or are they absentee owners? They have a right to their opinions but we feel that further waiting and pushback are not in the best interest of the town, nor its residents. Even though we don't live adjacent to the proposed location we also have a right to voice our opinion (as opposed to one speaker who "put us down").

As retired accountants we are concerned about how the town will fund future maintenance; can it be funded within the town's budget. As for initial "building" costs future CPA funding could be a source of funds within the CPA rules.

We encourage the town officials, planning boards and other residents to work together to create a forward thinking community that includes a green space/park/boardwalk at the 22-acre site on Route 28. We thank this committee for their time.

Thank you.

I speak as a private citizen and my opinions are not those of the Yarmouth Finance Committee of which I am a member and vice chair.

6/7/17 Rec'd
KMG

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4. Salt marsh plants key to reducing coastal erosion and flooding

Salt marsh plants key to reducing coastal erosion and flooding

2/10/2014

The effectiveness of salt marshes – wetlands which are flooded and drained by tides – in protecting coastal areas in times of severe weather has been quantified in a study by researchers from the University of Cambridge.

We've shown that even in extreme conditions, salt marshes are a vital defence for our coastlines and protect against more frequent storms.
- Dr Iris Möller

In the largest laboratory experiment ever constructed to investigate this phenomenon, the researchers have shown that over a distance of 40 metres, the salt marsh reduced the height of large waves in deep water by 18%, making them an effective tool for reducing the risk of coastal erosion and flooding. Sixty percent of this reduction is due to the presence of marsh plants alone. The results are published in the journal Nature Geoscience.

One of the most noticeable effects of climate change is the increasing frequency and severity of storms, such as the series of storms which battered parts of south west England last winter. As the climate continues to warm and sea levels continue to rise, the effects of these storms could be devastating, putting these and other coastal communities worldwide at risk.

While the important role of salt marshes in protecting against coastal erosion is well-known, their effectiveness in mitigating the effects of extreme weather, when water levels are at their maximum and waves are at their highest, had not been understood or definitively quantified.

Recreating a salt marsh in a large wave tank and subjecting it to realistic storm conditions, the researchers found that it significantly 'buffered' the effects of the waves. Similar to wind blowing through a forest, the plants reduce the energy of the water as it flows through and around them. Even when the waves flattened and broke the marsh's vegetation, the soil surface beneath remained stable and resistant to surface erosion.

Salt marshes are found throughout the world, particularly at middle to high latitudes. In addition to their role in protecting against coastal erosion and reducing flooding, they also act as nurseries and refuges for many species of marine animals, and protect water quality by filtering runoff.

Given increased rates of global sea level rise, there are concerns about losing salt marsh on many coasts, particularly where there is insufficient sediment and space to allow marshes to build upwards and landwards.

"While we have long known that salt marshes and other natural defences such as sand dunes or mudflats can help protect our coastlines, a lack of data on their effectiveness in extreme conditions has meant that they often are not included in flood risk assessments," said Dr Iris Möller of Cambridge's Department of Geography (Cambridge Coastal Research Unit), who led the research. "But we've shown that even in extreme conditions, salt marshes are a vital defence for our coastlines and protect against more frequent storms."

The researchers used large sections of salt marsh, cut from a natural marsh in northwestern Germany. The

team then rebuilt the marsh in one of the world's largest wave tanks, located in Hannover, and subjected it to water depths and types of waves that are typical in storm surge conditions. Even after the waves flattened the plants, the marsh was still an effective barrier against erosion, demonstrating the importance of natural flood defences alongside manufactured defences such as flood walls.

The flooding which hit south west England last winter was the worst in nearly 20 years. A series of 12 major storms between December and February caused huge waves, strong winds and hide tides to pummel large parts of Cornwall, Devon and the southwest, causing millions of pounds worth of damage. Many homes and businesses were flooded multiple times, and major flooding in the Somerset Levels forced many families to evacuate their homes and many farmers to evacuate their livestock.

As part of the government's attempts to mitigate the effects of future storms, salt marshes have been re-created in several locations around the UK coast: a large new salt marsh on the Somerset's Steart peninsula was recently completed, and several more are planned for locations throughout the UK.

The research was supported by the European Community's 7th Framework Programme and a grant from The Isaac Newton Trust, Trinity College, Cambridge.

The paper, 'Wave attenuation over coastal salt marshes under storm surge conditions' is published in the journal *Nature Geoscience*. DOI: 10.1038/ngeo2251

A time-lapse video of the marsh construction is available at: https://www.youtube.com/watch?v=UqRIxOvogHc

Image: Storm on a rising tide, Orplands, Essex (Credit: James Tempest)

****

For additional information, please contact:
Sarah Collins, Office of Communications
University of Cambridge
Tel: +44 (0)1223 765542
Email: sarah.collins@admin.cam.ac.uk

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Chapter 49. Salt Marshes

Contributors: J. S. Weis, K. E. A. Segarra, Patricio Bernal (Lead member)

1. Inventory

Salt marshes are intertidal, coastal ecosystems that are regularly flooded with salt or brackish water and dominated by salt-tolerant grasses, herbs, and low shrubs. They occur in middle and high latitudes worldwide and are largely replaced by mangroves in the subtropics and tropics (see Chapter 48). They are found on every continent except Antarctica (Figure 1). In areas of relatively little sediment delivery, salt marshes are highly organic and often peat-based. In contrast, salt marshes in areas of high sediment delivery, such as sheltered estuaries (see Chapter 44), are often well-developed with inorganic substrates.

2. Features of trends in extent

Salt marshes are among the most productive temperate ecosystems in the world. Contemporary salt marshes developed within the last 8,000 years in low-energy, coastal locations in response to rising sea levels (Milliman and Emery, 1968; Redfield 1967). Their ecology and global importance has been described in classic literature such as Chapman (1960), Ranwell (1972), Doody (2008) and Adam (1990). The physical stresses of salinity and flooding generate zones of salt-tolerant emergent vegetation, including such genera as *Carex*, *Spartina*, *Juncus*, *Salicornia*, *Halimone*, *Puccinellia*, and *Phragmites*. Marsh grasses contribute to the accumulation of organic matter and trapping of inorganic sediment. Salt marsh sustainability is mainly controlled by the relationship between marsh vertical accretion (due to sediment accretion, peat accumulation, belowground decomposition, subsidence) and sea level rise (frequency and duration of tidal flooding - Gagliano et al., 1981; Cahoon and Reed, 1995; Hatton et al., 1983; DeLaune et al., 1983). Other facts that impact their development and structure are tidal, wave and current action, erosion, freshwater influx, nutrient supply, and topography (Mitsch and Gosselink, 1993). Less than 50 per cent of the world's original wetlands remain (Mitsch and Gosselink, 1993) and current loss is estimated at 1-2 per cent per year (Bridgham et al., 2006) making wetlands one of the fastest disappearing ecosystems worldwide. Salt marsh loss coincides with a general historical degradation of estuarine ecosystems (Lotze et al., 2006). Just upstream from salt marshes are brackish marshes with lower salinity regimes, which are also highly productive, subject to the same stresses, and of equally great conservation concern.

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Figure 1. Salt Marshes (in orange). Source: UNEP-WCMC, 2015.

3. Major pressures linked to the trends

Over 60 per cent of the globe's population lives on or near the coast, and coastal populations are increasing at twice the average rate (UNEP, 2006a; Nicholls et al., 1999), making coastlines highly vulnerable to human activities. Salt and brackish marshes, formerly viewed as useless wastelands, were filled in for urban or agricultural development. Reclamation of land for agriculture by converting marshland to upland was historically a common practice. Coastal cities worldwide have expanded onto former salt marshes and used marshes for waste disposal sites. Airoldi and Beck (2007) estimate that countries in Europe have lost over 50 per cent of their salt marsh and seagrass areas to coastal development. Estuarine pollution from organic, inorganic, and toxic substances is a worldwide problem. Marshes have been drained, diked, ditched, grazed and harvested. They have been sprayed for mosquito control, and have been invaded by a range of non-native species that have altered their ecology. As one example, Massachusetts, United States of America, has lost 41 per cent of its salt marshes since the 1770s, with a loss of 81 per cent in Boston (Bromberg and Bertness, 2005; Figure 2).

Key threats to salt marshes are land reclamation, coastal development, dredging, sea-level rise (SLR), hydromodification, alteration of processes (e.g. sediment delivery, freshwater input) and eutrophication. Accelerated SLR is the largest climate-related threat to salt marshes. The Intergovernmental Panel on Climate Change predicts with

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medium confidence a SLR of 0.26-0.98 m by 2100 (Church et al., 2013). Nicholls et al. (1999) predict that 1 m SLR will eliminate 46 per cent of the world's coastal wetlands. Some salt marshes can keep pace with SLR, but others, especially those cut off from their sediment delivery via levees and seawalls cannot (Day et al., 1995). Nutrient pollution, which destabilizes below-ground biomass and increase decomposition, is likely to exacerbate salt marsh loss due to SLR (Turner et al., 2009; Deegan et al., 2012). Subsidence, which contributes to relative SLR in some regions, is an additional stressor. The impact of SLR will depend upon accretion and subsidence rates and other processes that influence the marshes ability to grow vertically and/or to migrate inland. "Coastal squeeze" describes the limitation of marshes to extend landward due to boundaries (Pethick, 2001) such as paved areas, seawalls, and bulkheads from coastal development.

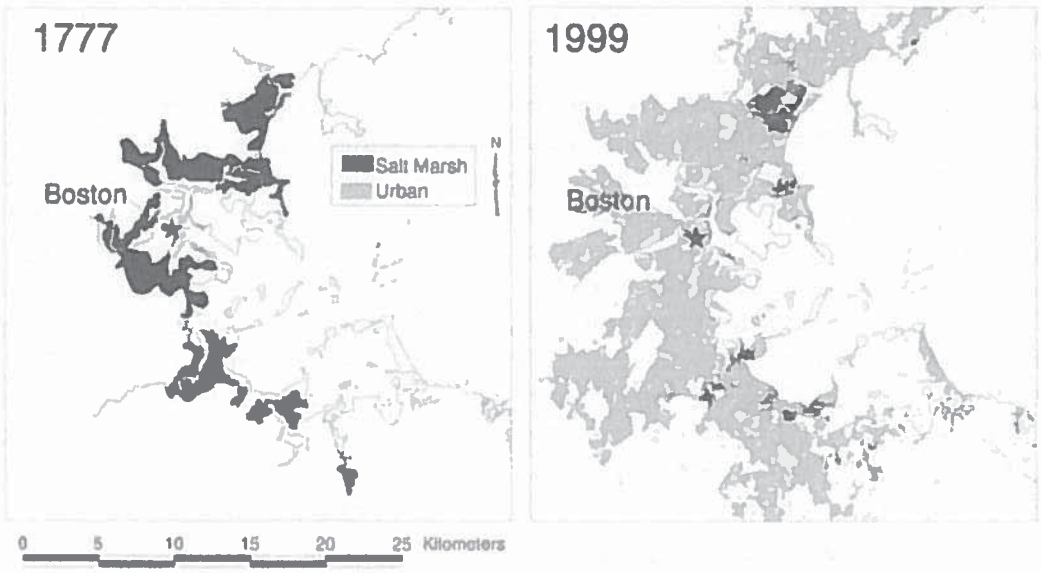

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Figure 2. Salt marsh loss in Boston, Massachusetts, United States, between 1777 and 1999 (Bromberg and Bertness, 2005).

4. Implications for services to ecosystems and humanity

Salt marshes play a large role in the aquatic food web and the cycling of nutrients in coastal waters. They serve as critical habitat for various life stages of coastal fisheries that account for a large percentage of the world's fish catch (UNEP, 2006b). Over half of the commercial fish species of the East coast of the United States utilize salt marshes at some time of their lives (Beck et al., 2001). In addition to providing habitat for juvenile fishes, crabs, and shrimps, marshes support populations of some small forage fishes,

which come up on the marsh surface at high tide to feed on invertebrates (Shenker and Dean, 1979; Zimmerman et al., 2000). Many migratory shore birds and ducks use salt marshes as stopovers during migrations and some birds winter in the marsh. Wading birds, such as egrets and herons, feed in salt marshes during the summer. Continued marsh loss could therefore dramatically alter estuarine food webs.

SLR is increasing the vulnerability of coastal populations to coastal erosion, flooding, and storms (IPCC, 2007). Salt marshes serve as natural barriers to these coastal hazards. They serve as shoreline stabilizers because they attenuate wave energy and help prevent erosion (Costanza et al., 2008, Gedan et al., 2011, Moller et al., 2014; see Chapter 26). They also slow and store floodwaters, reducing storm impacts on coastal communities (Cobell et al., 2013). While wetlands do not provide complete protection against coastal hazards, even small salt marshes can provide significant shoreline protection (Gedan et al., 2011). Their preservation and restoration may significantly decrease the economic impact and human losses of extreme events such as hurricanes and tsunamis (Gedan et al., 2011).

Salt marshes remove sediment, nutrients, microbes, and contaminants from runoff and riverine discharge (Gedan et al., 2009), acting as sponges absorbing much of the runoff after major storms and reducing flooding. They sequester pollutants from the water that drains down from the land, protecting nearby estuarine areas and coastal waters from harmful effects. They play a major role in the global carbon cycle and represent a major portion of the terrestrial biological carbon pool. They store excess carbon in their sediments, preventing it from re-entering the Earth's atmosphere and contributing to global warming. Salt marshes are thus an important component of the world's "blue carbon" (McLeod et al., 2011) and currently are being incorporated into global carbon markets. Chmura et al. (2003) estimated that tidal wetlands sequester 10 times the amount of carbon sequestered by peatlands. Salt marshes also provide excellent tourism, education, and recreation services, as well as research opportunities.

It is clear that salt marshes provide enormous benefits to society in the form of "ecosystem services". In this regard, coastal wetlands (which include salt marshes) are among the highest valued coastal ecosystems (Costanza et al., 2014). The serious reduction in salt marsh area reduces their capacity to provide these critical ecosystem services (Gedan et al., 2009; Craft et al., 2009).

5. Conservation Responses and Conclusions

As society has become aware of the environmental and economic values of salt marshes, efforts have commenced to slow their loss and even to restore degraded marshes. These are mostly local initiatives. Concerned individuals and dedicated groups both within and outside government are mobilizing to stop and even reverse the trends. Restoration may involve reconnecting areas to the estuary by excavating channels that had filled in, relying on the tidal flow to allow the marsh to restore itself. Other

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restoration projects involve removing unwanted invasive vegetation, changing the marsh elevation, and planting the desired species. Monitoring of such projects would need to be done for years after restoration to see if methods are successful or need modification, and to learn how much time it takes before the restored marsh acquires the biodiversity and ecosystem function of a natural marsh (Craft et al., 1999; Zedler and Lindig-Cisneros, 2000; Rozas et al., 2005). Restoration of coastal marshes is now also included among strategies for climate adaptation planning (Arkema et al., 2013, Barbier, 2014) and mitigating greenhouse gas emissions (Olander et al., 2012), highlighting the multiple benefits that may be derived from salt marsh conservation.

Some international legal instruments and policy frameworks, such as the Convention on Wetlands of International Importance, especially as Waterfowl Habitat[1] (Ramsar Convention), the Convention on Biological Diversity[2], and Agenda 21 adopted by the 1992 United Nations Conference on Environment and Development, promote the conservation and wise use of wetlands and support economic valuation to support conservation. Economic valuation can be used to evaluate and compare development uses vis-à-vis conservation uses. Although some estimates have been made (Costanza et al., 1997, Minello et al., 2012), placing a monetary amount on these services is difficult and controversial. Many benefits are non-monetary, which makes comparisons difficult in decision-making (Barbier et al., 2011). Improving the assessment and valuation of salt marsh services could assist current conservation methods.

These important vegetated, intertidal habitats and the ecosystem services they provide, such as fisheries, sequestration of pollutants, and protection from flooding and storm surge, are under threat due to natural and anthropogenic forces. Efforts would be needed worldwide to preserve the remaining salt marshes and restore some of those that have been destroyed or impaired.

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[1] United Nations, *Treaty Series*, vol. 996, No. 14583.

[2] United Nations, *Treaty Series*, vol. 2226, No. 30619.

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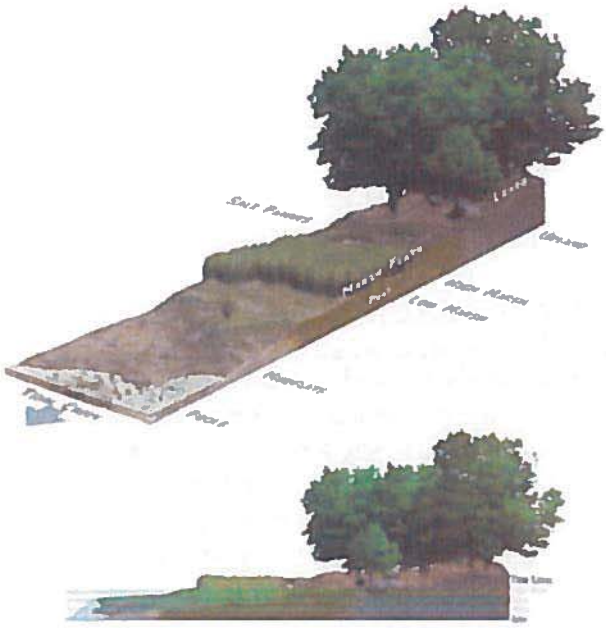
KMB

Salt marsh



A **salt marsh** or **saltmarsh**, also known as a coastal salt marsh or a tidal marsh, is a coastal ecosystem in the upper coastal intertidal zone between land and open salt water or brackish water that is regularly flooded by the tides. It is dominated by dense stands of salt-tolerant plants such as herbs, grasses, or low shrubs.[1] [2] These plants are terrestrial in origin and are essential to the stability of the salt marsh in trapping and binding sediments. Salt marshes play a large role in the aquatic food web and the delivery of nutrients to coastal waters. They also support terrestrial animals and provide coastal protection.[2]

Basic information

An estuarine salt marsh along the Heathcote River, Christchurch, New Zealand

Salt marsh on Sapelo Island, Georgia, USA

Salt marshes occur on low-energy shorelines in temperate and high-latitudes[3] which can be stable or emerging, or submerging if the sedimentation rate exceeds the subsidence rate. Commonly these shorelines consist of mud or sand flats (known also as tidal flats or abbreviated to mudflats) which are nourished with sediment from inflowing rivers and streams.[4] These typically include sheltered environments such as embankments, estuaries and the leeward side of barrier islands and spits. In the tropics and sub-tropics they are replaced by mangroves; an area that differs from a salt marsh in that instead of herbaceous plants, they are dominated by salt-tolerant trees.[1]

Most salt marshes have a low topography with low elevations but a vast wide area, making them hugely popular for human populations.[5] Salt marshes are located among different landforms based on their physical and geomorphological settings. Such marsh landforms include deltaic marshes, estuarine, back-barrier, open coast, embayments and drowned-valley marshes. Deltaic marshes are associated with large rivers where many occur in Southern Europe such as the Camargue, France in the Rhone delta or the Ebro delta in Spain. They are also extensive within the rivers of the Mississippi Delta in the United States.[2] In New Zealand, most salt marshes occur at the head of estuaries in areas where there is little wave action and high sedimentation.[6] Such marshes are located in Awhitu Regional Park in Auckland, the Manawatu Estuary, and the Avon-Heathcote Estuary in Christchurch. Back-barrier marshes are sensitive to the reshaping of barriers in the landward side of which they have been formed.[2] They are common along much of the eastern coast of the United States and the Frisian Islands. Large, shallow coastal embayments can hold salt marshes with examples including Morecambe Bay and Portsmouth in Britain and the Bay of Fundy in North America.[2]

Salt marshes are sometimes included in lagoons, and the difference is not very marked; the Venetian Lagoon in Italy, for example, is made up of these sorts of animals and or living organisms belonging to this ecosystem. They have a big impact on the biodiversity of the area. Salt marsh ecology involves complex food webs which include primary producers (vascular plants, macroalgae, diatoms, epiphytes, and phytoplankton), primary consumers (zooplankton, macrozoa, molluscs, insects), and secondary consumers.[7]

The low physical energy and high grasses provide a refuge for animals. Many marine fish use salt marshes as nursery grounds for their young before they move to open waters. Birds may raise their young among the high grasses, because the marsh

provides both sanctuary from predators and abundant food sources which include fish trapped in pools, insects, shellfish, and worms.[8]

Worldwide occurrence

Saltmarshes across 99 countries (essentially worldwide) were mapped by Mcowen et al. 2017.[9] A total of 5,495,089 hectares of mapped saltmarsh across 43 countries and territories are represented in a Geographic Information Systems polygon shapefile. This estimate is at the relatively low end of previous estimates (2.2-40 Mha). The most extensive saltmarsh worldwide are found outside the tropics, notably including the low-lying, ice-free coasts, bays and estuaries of the North Atlantic which are well represented in their global polygon dataset.[9]

Formation

The formation begins as tidal flats gain elevation relative to sea level by sediment accretion, and subsequently the rate and duration of tidal flooding decreases so that vegetation can colonize on the exposed surface.[10] The arrival of propagules of pioneer species such as seeds or rhizome portions are combined with the development of suitable conditions for their germination and establishment in the process of colonisation.[11] When rivers and streams arrive at the low gradient of the tidal flats, the discharge rate reduces and suspended sediment settles onto the tidal flat surface, helped by the backwater effect of the rising tide.[4] Mats of filamentous blue-green algae can fix silt and clay sized sediment particles to their sticky sheaths on contact [12] which can also increase the erosion resistance of the sediments.[13] This assists the process of sediment accretion to allow colonising species (e.g.,聽 Salicornia spp.) to grow. These species retain sediment washed in from the rising tide around their stems and leaves and form low muddy mounds which eventually coalesce to form depositional terraces, whose upward growth is aided by a sub-surface root network which binds the sediment.[14] Once vegetation is established on depositional terraces further sediment trapping and accretion can allow rapid upward growth of the marsh surface such that there is an associated rapid decrease in the depth and duration of tidal flooding. As a result, competitive species that prefer higher elevations relative to sea level can inhabit the area and often a succession of plant communities develops.[10]

Tidal flooding and vegetation zonation

An Atlantic coastal salt marsh in Connecticut.

Coastal salt marshes can be distinguished from terrestrial habitats by the daily tidal flow that occurs and continuously floods the area.[1] It is an important process in delivering sediments, nutrients and plant water supply to the marsh.[5] At higher

elevations in the upper marsh zone, there is much less tidal inflow, resulting in lower salinity levels.[1] Soil salinity in the lower marsh zone is fairly constant due to everyday annual tidal flow. However, in the upper marsh, variability in salinity is shown as a result of less frequent flooding and climate variations. Rainfall can reduce salinity and evapotranspiration can increase levels during dry periods.[1] As a result, there are microhabitats populated by different species of flora and fauna dependant on their physiological abilities. The flora of a salt marsh is differentiated into levels according to the plants' individual tolerance of salinity and water table levels. Vegetation found at the water must be able to survive high salt concentrations, periodical submersion, and a certain amount of water movement, while plants further inland in the marsh can sometimes experience dry, low-nutrient conditions. It has been found that the upper marsh zones limit species through competition and the lack of habitat protection, while lower marsh zones are determined through the ability of plants to tolerate physiological stresses such as salinity, water submergence and low oxygen levels.[15] [16]

High marsh in the Marine Park Salt Marsh Nature Center in Brooklyn, New York

The New England salt marsh is subject to strong tidal influences and shows distinct patterns of zonation.[16] In low marsh areas with high tidal flooding, a monoculture of the smooth cordgrass, Spartina alterniflora dominate, then heading landwards, zones of the salt hay, Spartina patens, black rush, Juncus gerardii and the shrub Iva frutescens are seen respectively.[15] These species all have different tolerances that make the different zones along the marsh best suited for each individual.

Plant species diversity is relatively low, since the flora must be tolerant of salt, complete or partial submersion, and anoxic mud substrate. The most common salt marsh plants are glassworts (Salicornia spp.) and the cordgrass (Spartina spp.), which have worldwide distribution. They are often the first plants to take hold in a mudflat and begin its ecological succession into a salt marsh. Their shoots lift the main flow of the tide above the mud surface while their roots spread into the substrate and stabilize the sticky mud and carry oxygen into it so that other plants can establish themselves as well. Plants such as sea lavenders (Limonium spp.), plantains (Plantago spp.), and varied sedges and rushes grow once the mud has been vegetated by the pioneer species.

Salt marshes are quite photosynthetically active and are extremely productive habitats. They serve as depositories for a large amount of organic matter and are full of decomposition, which feeds a broad food chain of organisms from bacteria to mammals. Many of the halophytic plants such as cordgrass are not grazed at all by

higher animals but die off and decompose to become food for micro-organisms, which in turn become food for fish and birds.

Sediment trapping, accretion, and the role of tidal creeks

Bloody Marsh in Georgia, USA

The factors and processes that influence the rate and spatial distribution of sediment accretion within the salt marsh are numerous. Sediment deposition can occur when marsh species provide a surface for the sediment to adhere to, followed by deposition onto the marsh surface when the sediment flakes off at low tide.[10] The amount of sediment adhering to salt marsh species is dependent on the type of marsh species, the proximity of the species to the sediment supply, the amount of plant biomass, and the elevation of the species.[17] For example, in a study of the Eastern Chongming Island and Jiuduansha Island tidal marshes at the mouth of the Yangtze River, China, the amount of sediment adhering to the species Spartina alterniflora, Phragmites australis, and Scirpus mariqueter decreased with distance from the highest levels of suspended sediment concentrations (found at the marsh edge bordering tidal creeks or the mudflats); decreased with those species at the highest elevations, which experienced the lowest frequency and depth of tidal inundations; and increased with increasing plant biomass. Spartina alterniflora, which had the most sediment adhering to it, may contribute >10% of the total marsh surface sediment accretion by this process.[17]

Salt marsh species also facilitate sediment accretion by decreasing current velocities and encouraging sediment to settle out of suspension.[10] Current velocities can be reduced as the stems of tall marsh species induce hydraulic drag, with the effect of minimising re-suspension of sediment and encouraging deposition.[18] Measured concentrations of suspended sediment in the water column have been shown to decrease from the open water or tidal creeks adjacent to the marsh edge, to the marsh interior,[17] [18] [19] probably as a result of direct settling to the marsh surface by the influence of the marsh canopy.[18] [19]

Inundation and sediment deposition on the marsh surface is also assisted by tidal creeks [19] which are a common feature of salt marshes.[4] [10] [14] [19] [20] Their typically dendritic and meandering forms provide avenues for the tide to rise and flood the marsh surface, as well as to drain water,[14] and they may facilitate higher amounts of sediment deposition than salt marsh bordering open ocean.[20] Sediment deposition is correlated with sediment size: coarser sediments will deposit at higher elevations (closer to the creek) than finer sediments (further from the creek). Sediment size is also often correlated with particular trace metals, and can thus tidal creeks can affect metal distributions and concentrations in salt marshes, in turn affecting the biota.[21] Salt marshes do not however require tidal creeks to facilitate

sediment flux over their surface [18] although salt marshes with this morphology seem to be rarely studied.

The elevation of marsh species is important; those species at lower elevations experience longer and more frequent tidal floods and therefore have the opportunity for more sediment deposition to occur.[17] [22] Species at higher elevations can benefit from a greater chance of inundation at the highest tides when increased water depths and marsh surface flows can penetrate into the marsh interior.[19]

Human impacts

Spartina alterniflora (Saltmarsh Cordgrass). Native to the eastern seaboard of the United States. Considered a noxious weed in the Pacific Northwest

The coast is a highly attractive natural feature to humans through its beauty, resources, and accessibility. As of 2002, over half of the world's population was estimated to being living within 60 聽 km of the coastal shoreline,[2] making coastlines highly vulnerable to human impacts from daily activities that put pressure on these surrounding natural environments. In the past, salt marshes were perceived as coastal 'wastelands,' causing considerable loss and change of these ecosystems through land reclamation for agriculture, urban development, salt production and recreation.[5] [23] [24] The indirect effects of human activities such as nitrogen loading also play a major role in the salt marsh area. Salt marshes can suffer from dieback in the high marsh and die-off in the low marsh.

Land reclamation

Reclamation of land for agriculture by converting marshland to upland was historically a common practice.[5] Dikes were often built to allow for this shift in land change and to provide flood protection further inland. In recent times intertidal flats have also been reclaimed.[25] For centuries, livestock such as sheep and cattle grazed on the highly fertile salt marsh land.[1] [26] Land reclamation for agriculture has resulted in many changes such as shifts in vegetation structure, sedimentation, salinity, water flow, biodiversity loss and high nutrient inputs. There have been many attempts made to eradicate these problems for example, in New Zealand, the cordgrass Spartina anglica was introduced from England into the Manawatu River mouth in 1913 to try and reclaim the estuary land for farming.[6] A shift in structure from bare tidal flat to pastureland resulted from increased sedimentation and the cordgrass extended out into other estuaries around New Zealand. Native plants and animals

struggled to survive as non-natives out competed them. Efforts are now being made to remove these cordgrass species, as the damages are slowly being recognised.

In the Blyth estuary in Suffolk in eastern England, the mid-estuary reclamations (Angel and Bulcamp marshes) that were abandoned in the 1940s have been replaced by tidal flats with compacted soils from agricultural use overlain with a thin veneer of mud. Little vegetation colonisation has occurred in the last 60 鈥?5 years and has been attributed to a combination of surface elevations too low for pioneer species to develop, and poor drainage from the compacted agricultural soils acting as an aquaclude.[27] Terrestrial soils of this nature need to adjust from fresh to saline interstitial water by a change in the chemistry and the structure of the soil, accompanied with fresh deposition of estuarine sediment, before salt marsh vegetation can establish.[11] The vegetation structure, species richness, and plant community composition of salt marshes naturally regenerated on reclaimed agricultural land can be compared to adjacent reference salt marshes to assess the success of marsh regeneration.[28]

Upstream agriculture

Cultivation of land upstream from the salt marsh can introduce increased silt inputs and raise the rate of primary sediment accretion on the tidal flats, so that pioneer species can spread further onto the flats and grow rapidly upwards out of the level of tidal inundation. As a result, marsh surfaces in this regime may have an extensive cliff at their seaward edge.[29] At the Plum Island estuary, Massachusetts (U.S.A), stratigraphic cores revealed that during the 18th and 19th century the marsh prograded over subtidal and mudflat environments to increase in area from 6 聽 km^2 to 9 聽 km^2 after European settlers deforested the land uptream and increased the rate of sediment supply.[30]

Urban development and nitrogen loading

Chaetomorpha linum is a common marine algae found in the salt marsh.

The conversion of marshland to upland for agriculture has in the past century been overshadowed by conversion for urban development. Coastal cities worldwide have encroached onto former salt marshes and in the U.S. the growth of cities looked to salt marshes for waste disposal sites. Estuarine pollution from organic, inorganic, and toxic substances from urban development or industrialisation is a worldwide problem [25] and the sediment in salt marshes may entrain this pollution with toxic effects on floral and faunal species.[29] Urban development of salt marshes has slowed since about 1970 owing to growing awareness by environmental groups that they provide

beneficial ecosystem services.[5] They are highly productive ecosystems, and when net productivity is measured in g m $^{-2}$ yr $^{-2}$ they are equalled only by tropical rainforests.[25] Additionally, they can help reduce wave erosion on sea walls designed to protect low-lying areas of land from wave erosion.[11]

De-naturalisation of the landward boundaries of salt marshes from urban or industrial enchroachment can have negative effects. In the Avon-Heathcote estuary/Ihutai, New Zealand, species abundance and the physical properties of the surrounding margins were strongly linked, and the majority of salt marsh was found to be living along areas with natural margins in the Avon and Heathcote river outlets; conversely, artificial margins contained little marsh vegetation and restricted landward retreat.[31] The remaining marshes surrounding these urban areas are also under immense pressure from the human population as human-induced nitrogen enrichment enters these habitats. Nitrogen loading through human-use indirectly affects salt marshes causing shifts in vegetation structure and the invasion of non-native species.[15]

Human impacts such as sewage, urban run-off, agricultural and industrial wastes are running into the marshes from nearby sources. Salt marshes are nitrogen limited[15] [32] and with an increasing level of nutrients entering the system from anthropogenic effects, the plant species associated with salt marshes are being restructured through change in competition.[5] For example, the New England salt marsh is experiencing a shift in vegetation structure where S. alterniflora is spreading from the lower marsh where it predominately resides up into the upper marsh zone.[15] Additionally, in the same marshes, the reed Phragmites australis has been invading the area expanding to lower marshes and becoming a dominant species. P. australis is an aggressive halophyte that can invade disturbed areas in large numbers outcompeting native plants.[5] [33] [34] This loss in biodiversity is not only seen in flora assemblages but also in many animals such as insects and birds as their habitat and food resources are altered.

Sea level rise

Due to the melting of Arctic sea ice and thermal expansion of the oceans, as a result of global warming, sea levels have begun to rise. As with all coastlines, this rise in water levels are predicted to negatively affect salt marshes, by flooding and eroding them.[8] The sea level rise causes more open water zones within the salt marsh. These zones cause erosion along their edges, further eroding the marsh into open water until the whole marsh disintegrates.[35]

Mosquito control

Earlier in the 20th century, it was believed that draining salt marshes would help reduce mosquito populations. In many locations, particularly in the northeastern United States, residents and local and state agencies dug straight-lined ditches deep into the marsh flats. The end result, however, was a depletion of killifish habitat. The killifish is a mosquito predator, so the loss of habitat actually led to higher mosquito populations, and adversely affected wading birds that preyed on the killifish. These ditches can still be seen, despite some efforts to refill the ditches.[36]

Crab herbivory and bioturbation

The tunnelling mud crab Helice crassa of New Zealand fills a special niche in the salt marsh ecosystem.

Increased nitrogen uptake by marsh species into their leaves can prompt greater rates of length-specific leaf growth, and increase the herbivory rates of crabs. The burrowing crab Neohelice granulata frequents SW Atlantic salt marshes where high density populations can be found among populations of the marsh species Spartina densiflora and Sarcocornia perennis. In Mar Chiquita lagoon, north of Mar del Plata, Argentina, Neohelice granulata herbivory increased as a likely response to the increased nutrient value of the leaves of fertilised Spartina densiflora plots, compared to non-fertilised plots. Regardless of whether the plots were fertilised or not, grazing by Neohelice granulata also reduced the length specific leaf growth rates of the leaves in summer, while increasing their length-specific senescence rates. This may have been assisted by the increased fungal effectiveness on the wounds left by the crabs.[37]

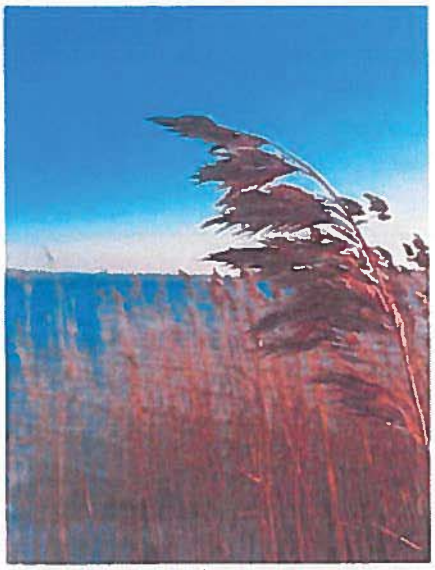
The salt marshes of Cape Cod, Massachusetts (U.S.A), are experiencing creek bank die-offs of Spartina spp. (cordgrass) that has been attributed to herbivory by the crab Sesarma reticulatum. At 12 surveyed Cape Cod salt marsh sites, 10% - 90% of creek banks experienced die-off of cordgrass in association with a highly denuded substrate and high density of crab burrows. Populations of Sesarma reticulatum are increasing, possibly as a result of the degradation of the coastal food web in the region.[38] The bare areas left by the intense grazing of cordgrass by Sesarma reticulatum at Cape Cod are suitable for occupation by another burrowing crab, Uca pugnax, which are not known to consume live macrophytes. The intense bioturbation of salt marsh sediments from this crab's burrowing activity has been shown to dramatically reduce the success of Spartina alterniflora and Suaeda maritima seed germination and established seedling survival, either by burial or exposure of seeds, or uprooting or burial of established seedlings.[39] However, bioturbation by crabs may also have a positive effect. In New Zealand, the tunnelling mud crab Helice crassa has been given the stately name of an 'ecosystem engineer' for its ability to construct new habitats and alter the access of nutrients to other species. Their burrows provide an avenue for the transport of dissolved oxygen in the burrow water through the oxic sediment of the burrow walls and into the surrounding anoxic sediment, which creates the perfect habitat for special nitrogen cycling bacteria. These nitrate reducing (denitrifying) bacteria quickly consume the dissolved oxygen entering into the burrow walls to create the oxic mud layer that is thinner than that at the mud surface. This allows a more direct diffusion path for the export of nitrogen (in the form of gaseous nitrogen (N)) into the flushing tidal water.[40]

Restoration and management

Glasswort (Salicornia spp.) a species endemic to the high marsh zone.

The perception of bay salt marshes as a coastal 'wasteland' has since changed, acknowledging that they are one of the most biologically productive habitats on earth, rivalling tropical rainforests. Salt marshes are ecologically important providing habitats for native migratory fish and acting as sheltered feeding and nursery grounds.[24] They are now protected by legislation in many countries to look after these ecologically important habitats.[41] In the United States and Europe, they are now accorded to a high level of protection by the Clean Water Act and the Habitats Directive respectively. With the impacts of this habitat and its importance now realised, a growing interest in restoring salt marshes, through managed retreat or the reclamation of land has been established. However, many Asian countries such as China are still to recognise the value of marshlands. With their ever-growing populations and intense development along the coast, the value of salt marshes tends to be ignored and the land continues to be reclaimed.[5]

Bakker et al. (1997)[42] suggests two options available for restoring salt marshes. The first is to abandon all human interference and leave the salt marsh to complete its natural development. These types of restoration projects are often unsuccessful as vegetation tends to struggle to revert to its original structure and the natural tidal cycles are shifted due to land changes. The second option suggested by Bakker et al. (1997)[42] is to restore the destroyed habitat into its natural state either at the original site or as a replacement at a different site. Under natural conditions, recovery can take 2 欽?0 years or even longer depending on the nature and degree of the disturbance and the relative maturity of the marsh involved.[41] Marshes in their pioneer stages of development will recover more rapidly than mature marshes[41] as they are often first to colonize the land. It is important to note, that restoration can often be sped up through the replanting of native vegetation.



Common reed (Phragmites australis) an invasive species in degraded marshes in the northeastern United States.

This last approach is often the most practiced and generally more successful than allowing the area to naturally recover on its own. The salt marshes in the state of Connecticut in the United States have long been an area lost to fill and dredging. As of 1969, the Tidal Wetland Act was introduced that ceased this practice,[34] but despite the introduction of the act, the system was still degrading due to alterations in tidal flow. One area in Connecticut is the marshes on Barn Island. These marshes were diked then impounded with salt and brackish marsh during 1946-1966.[34] As a result, the marsh shifted to a freshwater state and became dominated by the invasive species P. australis, Typha angustifolia and T. latifolia that have little ecological connection to the area.[34]

By 1980, a restoration programme was put in place that has now been running for over 20 years.[34] This programme has aimed to reconnect the marshes by returning tidal flow along with the ecological functions and characteristics of the marshes back to their original state. In the case of Barn Island, declines in the invasive species have initiated, re-establishing the tidal-marsh vegetation along with animal species such as fish and insects. This example highlights that considerable time and effort is needed to effectively restore salt marsh systems. Times in marsh recovery can depend on the development stage of the marsh; type and extent of the disturbance; geographical location; and the environmental and physiological stress factors to the marsh-associated flora and fauna.

Although much effort has gone into restoring salt marshes worldwide, further research is needed. There are many setbacks and problems associated with marsh restoration that requires careful long-term monitoring. Information on all components of the salt marsh ecosystem should be understood and monitored from sedimentation, nutrient, and tidal influences, to behaviour patterns and tolerances of both flora and fauna species.[41] Once we have a better understanding of these processes and not just locally, but over a global scale, we can then suggest more sound and practical management and restoration efforts that can be used to preserve our valuable marshes and put them back to their original state.

While humans are situated along coastlines, there will always be the possibility of human-induced disturbances despite the number of restoration efforts we plan to implement. Dredging, pipelines for offshore petroleum resources, highway construction, accidental toxic spills or just plain carelessness are examples that will for some time now and into the future be the major influences of salt marsh degradation.[41]

Atlantic ribbed mussell, found in the low marsh

In addition to restoring and managing salt marsh systems based on scientific principles, the opportunity should be taken to educate public audiences of their importance biologically and their purpose as serving as a natural buffer for flood protection.[24] Because salt marshes are often located next to urban areas, they are likely to receive more visitors than remote wetlands. By physically seeing the marsh, people are more likely to take notice and be more aware of the environment around them. An example of public involvement occurred at the Famosa Slough State Marine Conservation Area in San Diego, where a "friends" group worked for over a decade in trying to prevent the area from being developed.[43] Eventually, the 5 hectare site was bought by the City and the group worked together to restore the area. The project involved removing invasive species and replanting with natives, along with public talks to other locals, frequent bird walks and clean-up events.[43]

Research methods

There is a diverse range and combination of methodologies employed to understand the hydrological dynamics in salt marshes and their ability to trap and accrete sediment. Sediment traps are often used to measure rates of marsh surface accretion when short term deployments (e.g. less than one month) are required. These circular traps consist of pre-weighed filters that are anchored to the marsh surface, then dried in a laboratory and re-weighed to determine the total deposited sediment.[19] [20] For longer term studies (e.g. more than one year) researchers may prefer to measure sediment accretion with marker horizon plots. Marker horizons consist of a mineral such as feldspar that is buried at a known depth within wetland substrates to record the increase in overlying substrate over long time periods.[22] In order to gauge the amount of sediment suspended in the water column, manual or automated samples of tidal water can be poured through pre-weighed filters in a laboratory then dried to determine the amount of sediment per volume of water.[20] Another method for estimating suspended sediment concentrations is by measuring the turbidity of the water using optical backscatter probes, which can be calibrated against water samples

containing a known suspended sediment concentration to establish a regression relationship between the two.[17] Marsh surface elevations may be measured with a stadia rod and transit,[20] electronic theodolite,[19] Real-Time Kinematic Global Positioning System,[17] laser level [22] or electronic distance meter (total station). Hydrological dynamics include water depth, measured automatically with a pressure transducer,[19] [20] [22] or with a marked wooden stake,[18] and water velocity, often using electromagnetic current meters.[18] [20]

See also

- Bayou
- Beach meadow
- Biodiversity Action Plan
- Blue Carbon
- Body of water
- Bog
- Brackish marsh
- California coastal salt marsh
- Fen
- Halophyte
- High marsh
- Lagoon
- Low marsh
- Mangrove swamp
- Marsh
- Mesopotamian Marshes
- Mudflat
- Outwelling
- Plant community
- Salt flat
- Seagrass
- Swamp
- Tidal marsh
- Freshwater marsh
- Wetland

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External links

Wikimedia Commons has media related to Salt marshes.

- Friends of Famosa Slough
- Geography resource for schools
- Johnson, CY (2006). Cause sought as marshes turn into barren flats. The Boston Globe.
- Marine Nature Study Area operated by the Town of Hempstead: Dept. of Conservation & Waterways, located in Oceanside, New York, USA
- New England Sudden Wetland Dieback
- Salt Marsh Nature Center located in the Marine Park section of Brooklyn, New York, USA

Salt marsh

DISUC

I am Cathy Romboli, my husband Mark and I would like to address issues raised and voice our support for the overall concept of the Riverwalk Park and board walk

We are full time residents and local home owners (Capt's Village). We believe the conversion of this location into a park and boardwalk is a positive step forward for the town. This conversion of an unsightly location will create green space, improve the look of the location, create environmental restoration and provide a location for both town residents and visitors to enjoy the inlet and existing marshland. A previous study concluded that a marina wasn't economical feasible for the location which has sat vacant for many years. With the new Pirates museum across the street; planned rebuild of the Parker's river bridge and improvements to the channel why not continue with this proposed improvement. This green space site falls with the concept of the overlay bylaw was passed at town meeting a couple of years ago and follows the purpose for which this land was approved purchase ~~ 1985 for recreational use.

This is not currently a site for future building or other commerce. It is a site that will be attractive under any of the three proposed options. We choose plan Riverwalk Park proposal "C". Our strongest concern is turning into the park from Rte. 28 (traffic flow) from either direction. No regulation requires that open green space be utilized for economic development or revenue generation.

We oppose that attitude to leave the location as is or to postpone a decision about its use. Postponement of utilization of this site as others have proposed only allows the negative pushback attitude to prevail at this site as it has in other areas along the route 28 corridor. What other utilization use is there for the former drive in location? Any utilization should follow the recreational use agreed to at town meeting when the location was purchased.

We support the boardwalk; I'd suggest starting with Option 1 the loop; document any problems, see if the problems can be resolved and then expand the boardwalk to Seagull beach. We are not opposed to the extension of the boardwalk to Seagull beach.

Those who oppose repeat old unproven concerns of trash, crime seem convinced that keeping Yarmouth as it might have been as Patti Page's "old cape cod" are willing to sacrifice any new initiative, proposal or progress to a NIMBY mentality. We support the logic of examining other cape boardwalks for issues and opportunities in the proposals.

We have concerns about the opponents; are they full time residents? Or are they absentee owners? They have a right to their opinions but we feel that further waiting and pushback are not in the best interest of the town, nor its residents. Even though we don't live adjacent to the proposed location we also have a right to voice our opinion (as opposed to one speaker who "put us down").

As retired accountants we are concerned about how the town will fund future maintenance; can it be funded within the town's budget. As for initial "building" costs future CPA funding could be a source of funds within the CPA rules.

We encourage the town officials, planning boards and other residents to work together to create a forward thinking community that includes a green space/park/boardwalk at the 22-acre site on Route 28. We thank this committee for their time.

Thank you.

I speak as a private citizen and my opinions are not those of the Yarmouth Finance Committee of which I am a member and vice chair.

August 19, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is JANICE MAY and I reside at
11 COMPASS DR - S. YARMOUTH 14 Gateway Isles

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Janice H May

August 19, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is FRANKLIN MAY and I reside at
11 COMPASS DR S. YARMOUTH in GATEWAY ISLES

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

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I renew my objection.

Sincerely,

Franklin May

Pat Krzesik LAST_NAME

August ____, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Patricia Krzesik Donais and I reside at 96 Pawkannuckut Dr in S. Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

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Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Patricia Krzesik Donais

August 18, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Friederike E. Heiter and I reside at

3 Cape Isle Dr. in South Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

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I renew my objection.

Sincerely,

Friederike E Heiter

August 18, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is George Heiter and I reside at

3 Cape Isle Dr. in South Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

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Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

George L. Heiter

August 18, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Gladden R. Keyes and I reside at

80 Mattakeese Rd Unit 4 in West Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

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So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Gladden R. Keyes

August 16, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Dr. Stephen Walsh and I reside at

21 Cape Isle Drive in South Yarmouth MA

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

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Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Stephen J. Walsh

Stephen J. Walsh

August 16, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Peg Walsh and I reside at

21 Cape Isle Drive in South Yarmouth, MA

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

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So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Peg Walsh

Peg Walsh (Margaret M Walsh)

August 18, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

note Parkers Pond residents pay 150% taxes

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

can we get abatement of our new view property

My name is Tom Cabot and I reside at 65 Neptune Lane in So. Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

August ____, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is WARREN AZZARO and I reside at 143 PAUKANNAWAUKEE DR. S. YARMOUTH MA

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

W Azzaro

August 18, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is PAUL MC GRADY and I reside at

3 KELP LANE in SOUTH YARMOUTH

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Paul McGrady

August ____, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Elaine Saraska and I reside at
132 Parkhurst Rd in S. Yarmouth MA 02664

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Elaine Saraska

August ____, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Karen Greig and I reside at 120 Pawkannawit in S. Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Karen Greig

August ____, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Marge Pentkowski and I reside at 108 Pawkannewhat in Yarmouth, MA

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Marge Pentkowski

August ____, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is M. GARBAUSKAS and I reside at 69 NEPTUNE LANE in S. YARMOUTH

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

M. Garbauskas

August 18, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is ANTONIA CABOT and I reside at 65 Neptune Lane in South Yarmouth, MA 02664

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Antonia Cabot

August ____, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Mario Montanile and I reside at

2 Swordfish Dr in S. Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

August ____, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is R. GARDAUSKAS and I reside at

69 Neptune Ln in S. Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

August 18, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Pat Donais and I reside at 96 Pawkanawkut Dr in South Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Pat Donais

August 18, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Lee Donais and I reside at 96 Paukannaeakut Dr. in South Yarmouth.

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Lee Donais

August 18, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Beverly B. Greig and I reside at 121 Paulkanpaulkut Dr in South Yarmouth, MA 02664

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Beverly B. Greig

August 18, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is RAOUL A CHALIFOUX and I reside at

49 NEPTUNE LANE in S. YARMOUTH

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Raoul A. Chalifoux

August ____, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is BARRY LASS and I reside at

TIDE LANE in S YARMOUTH

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Barry Lass

August 18, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Noel Whiteside and I reside at 112 Pawkannawkut in South Yarmouth.

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Noel L Whiteside

August 18, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Janet Chalifoux and I reside at 49 Neptune Lane in S. Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Janet Chalifoux

August 18, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Alex Bizunok and I reside at 109 Pawkannawkut in Yarmouth, MA

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

A Bizunok

August 18, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Cynthia A. Meisner and I reside at 4 Tide Lane in S. Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Cynthia A. Meisner

August 18, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Valentina Bizunon and I reside at 109 Panoramaurut Dr in S. Yarmouth.

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Valentina Bizunon

August ____, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Eleanor Helberg and I reside at 7 Swordfish Dr in Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Eleanor Helberg

August 28, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Daniel Donahue and I reside at
73 Neptune Lane in So Yarmouth, Ma 02664

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Daniel Donahue

August ____, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is E J Ciampa and I reside at 54 Bathboard Lane in _____

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

E J Ciampa

August 21, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Suzanne Chapin and I reside at 68 horse pond road in West Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Suzanne Chapin

August ____, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Kathryn Andrade and I reside at 40 LAVENDER LANE in West Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Kathryn Andrade

August ____, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Jesse Hawkins and I reside at

40 Lavender Ln in West Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

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So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Jesse Hawkins

August ____, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Tilom Howe and I reside at 50 Neptune Lane in S. Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

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So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

August ____, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is LYNN DUNN and I reside at 19 Reid Ave in W. Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

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So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Lynn Dunn

August ____, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Antonio Ciampa and I reside at 54 Barnboard Lane in West Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

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So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Antonio Ciampa

August ____, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Karen Howell and I reside at 45 Lavender Lane in W. Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

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So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Karen Howell

Rec'd
8/23/17
KMG

To: DISUC
From: Brian Koelbel
Re: Meadowbrook Boardwalk
Date: 8/23/2017
CC: Yarmouth Selectmen

Please accept these photos taken July 31st to demonstrate the current condition of the Meadowbrook Boardwalk on Swan Pond in South Yarmouth.

From the day the Riverwalk / Boardwalk project reached our radar, it has been the opinion, on both sides of Parkers River, that the Boardwalk would pollute the marsh, encourage loitering and drug use, and become a maintenance nightmare. both logistically and financially.

These photos show that, at 1/4 the size, the Meadowbrook Boardwalk is an example of our concerns.

- **Garbage dumped over the side.**
- **Decay**
- **Graffiti**
- **BMX bicycle skid marks**
- **Dog feces**
- **Overgrowth**

Opponents are told "don't worry, this won't happen."

Given this current photographic evidence, why would anyone expect otherwise?

IH

August 20, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Chris Erickson and I reside at 2 Cape Tolo Drive in S. Yarmouth, MA

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

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So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

rec'd
8/23/17
KMG

The way I see it By Chris Erickson a Yarmouth Resident, 2 Cape Isle Drive
508-776-0660

I feel very fortunate and blessed to have lived on the Parkers River Estuary for the past 21 years. It's a special place, geographically located in the heart of Cape Cod; central to everything the Cape has to offer. You can walk to the beaches, go boating, shell fishing, surf casting, bike riding, walk to restaurants and on occasion witness a beautiful sunset overlooking its lush green marshland, the heart of my concern.

I now direct my attention to what is known as the Parker River wetland, an area that is sanctuary to many diverse specie of wildlife, a place that has been protected over the years from development because of the need to preserve both quiet and open space for man and animal. It was recently brought to my attention that local planners have decided that in the best interest of the public that a boardwalk be built through the heart of this unspoiled marine sanctuary so that people may walk the half mile to the beach with gear in tow maybe saving the price of a beach sticker. The tradeoff doesn't seem worth the investment in driving a stake through the heart of this rich and diverse sanctuary. This should be a concern to all of us.

I am a former US Park Ranger who studied environmental issues in college and know a little about protecting and preserving our natural resources. Over the years I have observed many of the inhabitants who live in this marshland and most if not all will surely be disrupted and possibly displaced by the intrusion of a man made structure through their habitat. I am not going to identify each and every species that frequents the marsh but I do know that aside from fisheries breeding and shellfish propagating, it hosts many marine, animal and bird species. From the many types of mollusk including mussels, clams, oysters and quahogs in addition to the many crabs, the fiddler, blue, horseshoe, spider and hermit and snails, it's quite alive with diversity. Most people would never know what's at stake until they live in a place for an extended amount of time as I have on the Parker River.

Some interesting observations that I have made over the years are many. They include witnessing a Grey Seal swimming up the river,

eventually finding solitude along the shallows of the riverbank. When a neighbor heard about my sighting he proudly shared a picture he had taken of a small Grey Seal resting on his boat dock. I have also observed a family of coyotes who live along the protected marshland. I am always amused when this secretive animal reveals itself in the evening or at night as a passing ambulance or police vehicle respond to an emergency on route 28. It appears the sound that a siren makes, trigger the coyotes into a chorus of howls and yipping. Sometimes the local dogs will chime in too. When this occurs I sometimes feel like I am living in the North Woods of Maine. It feels good knowing we haven't driven all the wild out of this beautiful peninsular.

The other day while observing a resident Osprey who lives in an old stunted pitch pine tree, in the middle of the marsh, I spotted three whitetail deer. I have never seen deer in the Marsh so I watched them with my binoculars as they slowly made their way from the old drive-in theatre to the opposite west side disappearing into the taller woodland scrub. It was fascinating to see.

The great Marsh is also home to the threatened river otter that I occasionally see fishing and eating mussels along the waters edge. Early one morning I watched the otter that was sitting on my wooden float, struggle to hold a slippery fish while he devoured it from the head to the tail, bones and all. It was an amazing sight to see. I often times hear owls at night but have never spotted them to identify their specie. I know there is one resident Barred owl because I recognize his call. I also see many Red Tail Hawks soaring over the Marsh with crows and jays in chase. A spectacle to watch as the Hawk hunts its prey. I often find the remnants of fur from the carcass of the abundant eastern cottontail around my home, food to many of the predators. And then there are the usual animal species such as the Red fox, the raccoon, skunk and opossum, all of which I see around the Parker River neighborhood. And very importantly all the Migratory waterfowl that use this waterway and estuary for resting and breeding as they make their way to the north and south. There are many other residents of the Parker River Estuary, too many to mention, but notably the Great blue heron, swan, egret, cormorant and kingfishers.

As you can see this area is teeming with many species of wildlife, which live and breed here in the Parker River ecosystem. As custodians we must protect this vital Natural Resource from development. It is our duty as mankind to preserve what open space we have left for all species so that future generations can enjoy what we had growing up. We already have two boardwalks in town if people need the experience of walking out onto a marsh. In view of this new proposed boardwalk, the distance to the beach is great; most people including myself will prefer to drive the shorter distance from the easily accessible beach parking lot. In my opinion, an observation deck at the Southern edge of the old drive-in would allow people to view nature without disrupting it, if that is the purpose of this endeavor. This would give Yarmouth and its visitors a glimpse into the natural beauty of our town while preserving a way of life for all its inhabitants.

On one final note, when I moved here to Yarmouth from Dennis and settled on the Parker river, I still remember how at night in the Spring I use to hear the chirping chorus of peeper frogs right out my bedroom window, from the vacant lot across the street. It was very soothing to hear. The chirping was an indicator that spring had arrived, soon to be followed by another summer on Cape Cod. Unfortunately, a decision was made to subdivide the land to build five homes and fill the low land with tons of gravel. Ever since that time, from when the first tree was cut to the last load of gravel dumped, there has been nothing but silence each spring.

I like our town government and the people who work in it, but even as we all try to do the right thing, sometimes our decisions aren't always the right ones. My hope is that we as intelligent human beings can somehow come together on the proposed walkway and find a solution that we can all agree on. I speak not from the business of this project but as a voice for nature and all its inhabitants in the Parkers River Estuary. Just my humble view. Thankyou,

Chris Erickson

Cc: All Yarmouth Selectman

August ____, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Carol Kaluza and I reside at 10 Seaside Village Rd. in Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Carol Kaluza

August ____, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Louise Carbone and I reside at 80 Pawkannawkut Dr. in S. Yarmouth MA.

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

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I renew my objection.

Sincerely,

Louise Carbone

August 22, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is David Page and I reside at 70 Pawkannawkut Drive in S. Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

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I renew my objection.

Sincerely,

August 22, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Shandy Page and I reside at 70 Pawkannawkut Drive in S. Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

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Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

August 21, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Joanne Andrews and I reside at 10 Cape Isle Dr in S. Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

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So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Joanne L. Andrews

August ____, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Michele Barling and I reside at 128 Pawkannawkut in S. Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

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So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Michele Barling

August 21, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Samantha Autenzio and I reside at 15 Swordfish Drive in South Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

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So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Samantha Autenzio

August 21, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Paul M Autenziu and I reside at 15 Swordfish Dr in S. Yarmouth MA

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

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Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

August 21, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Tammy Autozio and I reside at 15 Swordfish Dr in S Yarmouth.

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

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So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

x Tammy Autozio

August 19, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is ELAINE FERRARA and I reside at

8 TIDE LANE, in SO. YARMOUTH

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

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So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Elaine Ferrara

August 20, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is KEN YETMAN and I reside at 137 PAUKANNAWAUT DR in S. YARMOUTH

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

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I renew my objection.

Sincerely,

August 21, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Deborah Keene and I reside at 15 Corcoran Rd in Burlington, MA

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

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Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Deborah C Keene

August 21, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is William Keane and I reside at 15 Corcoran Rd in Burlington, MA

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

William D Keane

August 19, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Mariana O'Connor and I reside at 20 Seaside Village Rd in S. Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Mariana O'Connor

August ____, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is JEANNINE ALBEN and I reside at 11 SEASIDE VILLAGE RD. in S. YARMOUTH, MA

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Jeannine H. Alben

August ____, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Elizabeth Persampieri and I reside at 96 Wampanoag Rd in South Yarmouth MA

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Elizabeth M. Persampieri

August 20, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Jim Richman and I reside at 41 Wampanoag Rd in South Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Jim Richman & Camilla Richman

August 10, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is John E Burke and I reside at

38 Wampanoag Rd in So Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

August 9, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Sandra Gosselin and I reside at 15 Wampanoag Rd in So. Yarmouth, Ma.

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Sandra Gosselin
Robert E. Gosselin

August 19, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Betsy Madison and I reside at 4 Katama Way in South Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Betsy Madison

August 18, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is June L Halio and I reside at 163 Ocean Ave. in S. Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

June L. Halio

L Halio

August 21, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is John Manzilli and I reside at 94 Ocean Ave in Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

John Manzilli

August 19, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Mike & Sheryl Bauer and I reside at 73 Ocean Ave in S. Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Sheryl Bauer

August 18, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Steve Moriarty and I reside at 85 Ocean Ave. in South Yarmouth, Mass

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Stephen G. Moriarty

August 20, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Mairead Paoli and I reside at 166 Ocean Ave in So. Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Mairead Paoli

August ____, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Dianne Dahlborg and I reside at 129 Ocean Ave in South Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Dianne M Dahlborg

August 19, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Cara Florio and I reside at 58 Wampanoag in So. Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Cara Florio

August 19, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Lisa Borowski and I reside at 83 Mattachee Rd in S. Yarmouth, Ma

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Lisa Borowski

August 18, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Heather Brudz and I reside at 54 Mattachee Rd - (full season rental for years) in S. Yarmouth
* not owners

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

H Brudz

August ____, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Regina & Alfred O'Shea and I reside at 50 Mattachee Rd in S. Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Regina O'Shea

Alfie O'Shea

August ____, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Marianna Giglio and I reside at 44 Mattachee Rd. in So. Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Marianna Giglio

August ____, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Robert Hacker and I reside at
45 Mahacher in S-YARM

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Robert Hacker

August ____, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Brenda Geohan and I reside at 47 Mattacheese Rd in South Yarmouth, MA

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

August 21, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Jennifer & Jonathan Lass and I reside at 51 Mattacheese Rd in So Yarmouth MA

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Jennifer Lass Jonathan Lass

August 19, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Barbara Rodriguez and I reside at 3 Pertel Circle in Cataumet, MA

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection. If you are not taking care of Swan Pond what's going to happen to the new one.

Sincerely,

Barbara Rodriguez

August 19. 2017

To: Board of Selectmen
1146 Route 28. South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Agnes Hull and I reside at 7 Aspinet Rd in South Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Agnes J. Hull

August 18, 2017

To: Board of Selectmen
1146 Route 28. South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Ann Hanlon and I reside at 10 Aspinet Rd. in W. S. Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Ann Hanlon

August 20, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is MARTIN J JOYCE JR and I reside at 56 SOUTH SHORE DR in SOUTH YARMOUTH MA

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

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Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

August 20, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Carl Vorce and I reside at
11 Turner Lane in S Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

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So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Carla Vorce

August 21, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Ruth Froughton and I reside at 13 Parkwood Ct. in So. Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

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So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Ruth Froughton

August 19, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is FRANCIS Cloran and I reside at
60 PARKWOOD RD in South YARMOUTH, MA 02664

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

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Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Francis Cloran Diane J. Cloran

August 21, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Sheila Early and I reside at 26 Parkwood Rd in South Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

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So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Sheila Early

August 21, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Debra Moran and I reside at 20 Lyman Ln in S. Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

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Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Deb Moran

August ____, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is LYNDA GRILLI and I reside at 49 Little Dipper LANE in SOUTH YARMOUTH

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

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I renew my objection.

Sincerely,

L. Grilli

August 21, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Robert Autazio Jr and I reside at 178 Dawkinnawkut in S Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

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I renew my objection.

Sincerely,

August ____, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Robert Sullivan and I reside at 10 CAPE ISLE DR. in South Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

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Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Robert Sullivan

rec'd
8/23/17
KMC

Committee Chairman, Mr. Saban

I attended the July 10, 2017 meeting of the Drive-In Site Committee even though it was a small audience in attendance. At the end of the meeting Jerry Manning stated he was in favor of the Boardwalk and River-walk Park projects. Tom Roche said he was in favor of luxury condos and made reference to similar condos in Florida. Jim Saben said he was in favor of the Boardwalk and River-walk Park and stated the original purpose of the land purchase was for recreational purposes and/or conservation purposes under MA. General Law, etc.

I researched and obtained a copy of the special town meeting of Dec. 11, 1985 motion was made by Robert W. Saben which was voted on unanimously and they spend and purchase this property for $ 1,800,00.00 Now recently the town spent $ 84,000.00 to the BETA Engineering Firm who designed three options from the guideline given for a Boardwalk and River-walk Park.

During the past several months I have attended various meeting, voiced my opinions and made suggestions. As well as submitting a report on the damage to the environment and invasion of piracy of space to the residents of Gateway Isle families who live along the Parker River. I even submitted my name and resume to be on the Drive-In Committee and was interviewed by Mr Forest and Mr Saben. Mr Saben stated during the interview that you must be impartial on the committee and and our job is to prepare a report to the selectmen who will vote on the project. Now I have no problem being impartial, and I stated such but I was shocked to see that the committee was impartial as stated above.

Like others I have been racking my brain and searching for a solution that might be acceptable to all. Because in 32 years no one has come up with a solid worthwhile idea for this property, till now.

So what is being proposed is a Boardwalk for people in the hot summer to walk down and if you want you can rent a Kayak and go up and down the river. Roughly 12 to 36 Kayaks will be rented and the company will pay taxes. Basically a small amount because this is a small business.

So it cost $ 1,800,000.00 to buy the land, $ 84, 000 to create three designs options, a Million Dollars more for testing and permits which are required and Three to Five Million to build. All so a few can walk a mile on a boardwalk to a Kayak Rental Company, and for a butterfly flower garden, and it was stated a cost of $ 300, 000. to bring in added power.

So if I round off the total cost its about, Six to seven Million Dollars for a Boardwalk and a Kayak Company, who may go bankrupted because 12 to 36 Kayaks being rented isn't much money to live on, never mind paying salaries to workers.

From a Fiscally Conservative point of view, ***"this is crazy".*** ***A***t one of the committee meeting a woman, who was an artist stated that artist will not be interested in art shacks because the volume of people will not be present to make money. Something similar failed in Hyannis and would fail here in Yarmouth.

Solution

Over the years, I think you will agree, "Times change and we also must change to be ahead of the curve….". It was 32 years ago that someone had an idea to buy the old drive-in theater area for Conservation purposes.

I'm proposing The Butterfly Condos Project. You sell the property to a developer for over $ 5,000,000.00 (after land is appraised). With the stipulation that at least six (6) Osprey Bird Station are installed out in the marsh, flower beds are planted that will attrack Butterflies. The committee did state that they could add to the RFP for the developers specific items.

I checked with an appraiser of property who stated the this land is worth after proper zoning changes somewhere in the neighborhood of $ 20,000,000.00

This year my wife and I were in Sanibel and Captiva in Florida looking to purchase a condo and we rented a great piece of property as well. So I know what Tom Roche is talking about. You want education, during an announced time period the Town can hire some to give tours of the Bird Sanctuary and the Butterfly Garden with all the Butterflies it attracts. At a small cost of about $ 500.00 a year or someone may do it for free.

50 units to 80 units will all be paying taxes to the town. If taxes were $ 4000 per unit times 50 units comes to $ 200,000.00 in taxes paid to the town, or if you have 80 units times $ 4000 in taxes comes to about $ 320,000 paid to the town in taxes. Compared to the taxes of a small Kayak Company. My idea is to merge both ideas and be fiscally responsible. It wasn't the intention of the original group of town leader back in 1985 to damage the environment and the marsh that the current proposed plan will do. It wasn't the intention, I'm sure of the town leaders in 1985 not to disturb the quality of life of the residences living along the Parker River. It was the intention of the town leaders in 1985 to save the environment, it was 32 years ago someone had an idea to buy the old drive-in theater area for Conservation purposes.

I believe by merging these concepts both residential housing and Conservation ideas can be obtained. Then all parties involved will be happy with this concept, plus it is cost effective for the Town of Yarmouth.

Finally let me say, what I have tried to do in this report is to come up with a solution that will Identify a ***High Return on the original investment from 1985.***

Sincerely,

Lawrence J. Fennelly
Security Consultant

Cc: All Town Selectmen
Copy of 1985 letter attached

TOWN OF YARMOUTH

OFFICE OF THE TOWN CLERK AND TREASURER

1146 ROUTE 28, SOUTH YARMOUTH, MASS. 02664

KATHLEEN D. JOHNSON, C.M.C./C.M.M.T.

SPECIAL TOWN MEETING MATTACHEESE MIDDLE SCHOOL DECEMBER 11, 1985

ARTICLE 9:

To see if the Town will vote to authorize the Board of Selectmen to acq.ire by purchase, gift, or take by eminent domain for recreational purposes and/or conservation purposes under Massachusetts General Laws, Chapter 40, section 8C, those parcels of land as shown on a plan titled "Sketch Plan of Land in West Yarmouth, Ma., for the Town of Yarmouth, Ma., dated November 15, 1985, Yarmouth Engineering Department", and to appropriate a sum of money for such acquisition and development of said parcel and determine whether such sum shall be raised by taxation, transferred from available funds, or borrowed under Chapter 44 of the Massachusetts General Laws.

2/3rds vote (Board of Selectmen)

Acting on Article 9.

On motion made by Robert W. Saben, Jr. and duly seconded and recommended by the Finance Committee, Selectmen, Water Quality Commission, Conservation Commission, and Water Commissioners to move that the town vote to authorize the Board of Selectmen to take by eminent domain for recreational purposes and/or conservation purposes under Massachusetts General Laws Chaper 40, Section 8C, those parcels of land as shown on a plan titled"Sketch Plan Of Land In West Yarmouth, MA. For The Town Of Yarmouth Dated November 15, 1985 Revised November 26, 1985 Yarmouth Engineering Department"; and to transfer from available funds the sum of $25,000.00 and to authorize the Treasurer with the approval of the Board of Selectmen to borrow the sum of one million eight hundred thousand dollars ($1,800,000.00) under General Law Chapter 44, Section 7 for such acquisition and development of said parcel.

The vote was unanimous.
10:04 P.M.

Article 8 was reconsidered at this time.

August ____, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Faisal + Linda Ali and I reside at 8 Swordfish DR in South Yarmouth.

This project continues to advance despite:

278 petition signatures delivered in November 2018

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

Yarmouth already has two boardwalks. A small boardwalk at Bass Hole, and a second boardwalk on Swan Pond that sits in disrepair, completely overgrown and marred with graffiti, warped boards, and bicycle skid marks.

So, how can a third boardwalk possibly be identified as a "high yield public investment?"

Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Faisal Ali

Linda M. Ali

August 22, 2017

To: Board of Selectmen
1146 Route 28, South Yarmouth MA 02664
Re: Proposed Riverwalk Project

Good Day,

I am writing to voice my strenuous opposition to Project 17 - 2 - CD, the Riverwalk Project.

My name is Parthena Dandes and I reside at 7 Cape Isle Dr. in S. Yarmouth

This project continues to advance despite:

276 petition signatures delivered in November 2016

Overwhelming pubic opposition at 2 "Public Input" meetings in May and June 2017

This project is environmentally irresponsible, fiscally depleting, and clearly against the will of Yarmouth residents, both seasonal and year round.

Your Selectmen Policy Goal #1 includes the term "identify high return public investment." The Drive In Site Utilization Committee refuses to disclose any potential costs, preliminary or budgetary. Yet, somehow, this is listed as a potential "high return public investment?"

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Yarmouth cannot afford this project on any level, and the environmental damage will last forever.

I renew my objection.

Sincerely,

Parthena Dandes

To: Yarmouth Drive-In Site Utilization Committee
From:John H. McCormack Jr.
CC: Yarmouth Board of Selectmen,
Town Administrator Daniel Knapik

Dear Sirs,

First of all may I commend you on your hard work and devotion to the charge given you by the Yarmouth Board of Selectmen. As someone who participated in a town wide survey some time back I expressed as did the majority of respondents, that one of the concept of a boardwalk was desirable. Again it was a concept. As your committee pursues its work on various concepts you are attempting to examine the feasibility and practicality of some of these concepts.

As you look at them with a view at such concerns as the environmental affect, the monetary effect, the aesthetic affect and the affect of the possible benefits to the town and all its residents you do the town a great service.

As an attendee at your last meeting it was with dismay that I witnessed a new alternate member of your committee act with utter disregard of the the charge of the committee and his disruptive conduct as demeaning to his fellow committee members and his disrespectful and dismissive regard of the staff present. With a constant attempt to introduce irrelevant material into the proceedings in spite of constant admonishments from the Chairman he was a detriment to the work of the committee. He seemed to be delighted to take away from the intent of the meeting as a provocateur and cats paw acting for those opposing any attempt by the town to utilize the site for anything.

It would be my advise to the committee to ask the Board of Selectmen to review their policy on removing undesirable and disruptive members from a committee.

Once again thanking you for your hard work,
I remain respectfully yours, Jack McCormack

9/18/17
L. Fennelly

September 1, 2016

The following is a 3 Year Crime Analysis Study for Center Street on confidential data supplied by the Yarmouth Police Department.

Summary

1. This document indicates numerous routine directed patrols based on officers calling in at this location.

2. Suspicious MV were high incidents 11

   Hunting Inspection calls 4

   Suicidal Persons 3

   Other calls were criminal complaints – sick animals – potential drowning.

In my opinion this area is very safe and patrolled by Yarmouth Police. I base this on the incidences received.

Parking Offenses	1
B & E – MIV	1
Hunting Inspection – negative results	
Area Inspected for Board Walk Damage	1
Suspicious M/V	11
Suicidal Persons	3
Animal Complaints	2
Suspicious Persons	3
Sick Animal	2
Several Incident W/DMR Dept. Services	2
M/V Accidents	1
Adult Drinking	1
Vessel Compliant	
Potential Drowning – Chapin Beach	
Disturbance	
Arrests	
Swimmer in Distress	

Gary Fennelly

9/18/17
From Larry Fennelly

Comments made by Rich Bilski from a memo dated August 23, 2017

Basically he is in favor of everything but doesn't give specifics, I will only comment on the security aspects as a means of making this project work correctly if it goes forward.

Item 3. Rick suggest "*decorative lighting*" a standard fixture designed or one developed by the town should be used, i.e. use the same fixtures as used in the new construction by the Dennis Bridge.

First the aesthetics of all properties should have the same unit-------
Normally I'd make this recommendation however the Packet Landing and Park Marina has 20 foot pole (roughly) with a light on top which have frosted cover glass around the globe. I can't recommend this type of fixture because you loose 15 to 20 % of your light because of the frosted glass. This is probably the cheapest fixture someone bought from a catalog. You need to have a solar fixture with two lights on the top pointing down and the lights should be LED Units because they are most energy efficient and cost effective.

Lighting by itself does not prevent crime. Lighting provides the opportunity for "choice"; the choice to walk forward because you can see clearly that the path is clear and free of danger. If the user can see a potential danger (a person hiding, a group of misbehaving kids at the corner), they may choose to walk a different way.

However, lighting can illuminate a target for a criminal as easily as it allows a legitimate user to see a potential threat or criminal. For this reason, lighting must be applied properly. Unless you have natural surveillance of an area, lighting may not always prevent crime. In fact, good lighting without surveillance may actually encourage criminal activity.

Mr. Bilski is in favor of a gate by the entrance, you really need to consider that fact that the police maybe busy at exactly 7:00 PM every night and you should get a unit that works off a timer and opens and closes at specific times as required. This brings up the question of

Signage on both side of the gate which states the hours of opening and closing. This shouldn't be a law enforcement function.

Item 4. Restrooms .....I have a problem here you need to be aware of Homosexuality and illegal drug use. I'm not anti-gay but it must be said.

Item 5. I'd like to suggest at least 6 Osprey stations installed on the marsh.You need to give the visitors something to see.

Item 6. Seating Mr. Bilski suggests the use of Granite Boulders, **I dis-agree no one wants to sit on a rock, if your going to develop this property do it with class.** However Boulders are used to control traffic and traffic flow and are decorative as well. Another positive point is you get good natural surveillance from them assuming they are below 3 feet tall.

Item 7. Litter this has been discussed and again the same type and style should be used.

Item 8. Landscaping

An important element of CPTED that defines semi-private and private space on property is landscape design. It is recommended that the height of bushes be no higher than 3 feet. FEMA recommends the height of bushes to be 18 inches and that tree branches should be trimmed to between 7 and 8 feet *off the ground to provide for natural surveillance. ASIS also recommends an 8 foot clearance height. Hiding spots are eliminated so intruders can be detected. The landscaping of an area, if properly laid out, can be a deterrent and prevent criminal opportunity.

Landscape furniture should be vandal-resistant and if benches are installed they need to be designed so that homeless individuals can't sleep on them. Take into consideration exterior lighting, video surveillance,

maintenance, barriers, security officers, entrances/exits to the property/building(s) and appropriate signage.

Adequate lighting should be provided and walkways/entryways to buildings clearly visible for members of the community.

Landscaping should be maintained to minimize obstacles for clear observability and places of concealment for potential assailants.

CAN YOU SEE THE PERSON HIDING BEHIND THE BUSHES?????? NEITHER CAN I…..

Sidewalks, streets and parking lots must be clean (power washed) and free of graffiti. Ensure that there is proper signage and adequate lighting. There should be 360-degree views of open areas. Consider creating a venue for after school activities that encourage youth to take

ownership of the space for socializing, such as small, secure shelter areas with cell phone chargers and Wi-Fi access.

Signage plays an important role in security and there should be signage with information for those visiting or utilizing the area. Proper signage removes the excuses for unacceptable behavior, draws attention to the illegitimate activity and legitimizes police involvement, thus making the violation of the information on the posted signs an excellent crime prevention tool.

There is a vast array of traffic calming devices, such as speed bumps and raised crosswalks. These areas should be painted yellow with proper signage posted.

Eliminate "Hot Spots" by planting thorny bushes (Barberry, Holly, etc.) in problem areas. Use boulders or bollards to control vehicular access. Consider adding community art or sculptures which not only control access but also reinforce the purpose by giving implied ownership to the artists. For Natural access control, space should give some natural indication of where people are allowed and are not allowed. Don't depend just on locks, alarms, surveillance systems and police officers, but make security part of the design layout.

Item 9 Kayaks I totally disagree with the spending of any tax payers money for a summer business and a Kayaks company, we will never be like the location in Dennis.

Item 10. Don't build them, its a waste of money. It will never fly

Item 13. Suggest the usage of Digital Boards to work off solar panels.

See below, yes a different message but this is the future.

Item 14. Interactive/Natural Plays-cape Mr Bilski agrees, I don't know what this is, the title of it is something from la la Land.

Item 15. Events/Activities, weddings, birthday parties, concerts Mr. Bilski wants to use the non-movable granite blocks here compared to tables and chairs. Who is going to run Items 14 and 15

My Item 1.

Who is going to maintain this property? As Steve Walsh (Cape Isle) said the amount of bird-shit is tremendous, so where are the water faucets needed for the entire Boardwalk or Riverwalk area's.

My item 2 . Maintenance and Image

Characteristics of an environment that express ownership of the property. Deterioration of a property indicates less ownership involvement which can result in more vandalism, also known as the Broken Window Theory. If a trash can is broken and remains unfixed for a length of time, vandals will break more trash cans. Crime is more prevalent in areas that are not maintained; as a result, law-abiding persons do not feel safe and do not want to frequent those areas.

- Maintain all common areas to very high standards, including entrances, and right-of-way.
- Prune trees and shrubs back from walkways.
- Use and maintain exterior lighting effectively and for CCTV units.
- Strictly enforce rules regarding junk vehicles and inappropriate outdoor storage.
- Don't allow the site to appear un-cared for and less secure.

My Item 3.

Security Surveillance System (CCTV) Someone will said in the towns group 1 camera is enough you need a minimum of 3 to 6 depending on the size of the complex, three in parking lot and three on boardwalk.

My Item 4.

My Item 5. Standards and Guidelines Internationally Approved

Natural Access Control

- Clearly define public entrances with architectural elements, lighting, landscaping, paving, and/or signage.
- Reduce the number of public access points to those which are watched by guards, receptionists, nearby tenants, or passing traffic.

Natural Surveillance

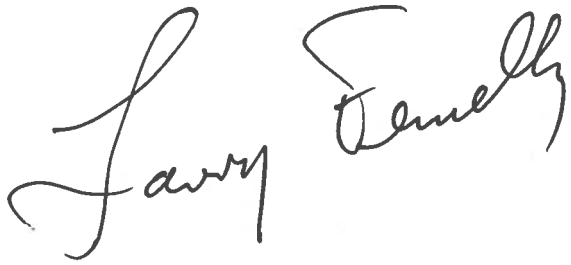
- Position restrooms to be observed from nearby offices.
- Install and use good lighting at all exterior doors, common areas, and hallways.
- Keep dumpsters visible and avoid creating blind spots or hiding places, or place them in secured, locked areas.
- Design windows and exterior doors so that they are visible from the street or by neighboring buildings.
- Install windows into all facades except where in conflict with building code.
- Place parking as to be visible from windows.
- Keep shrubbery under three feet in height for visibility.
- Prune the lower branches of trees to at least seven to eight feet off the ground.
- Do not obstruct views from windows.

Territorial Reinforcement

- Manned guardhouses allow for both access control and surveillance.
- Define perimeters with landscaping or fencing.
- Design fences to maintain visibility from the street.
- Differentiate exterior private areas from public areas.
- Position security and/or reception areas at all entrances.

Maintenance

- Keep all exterior areas neat and clean.
- Keep all plantings looking well managed.



9/18/17
L. Fennelly

The following is a 3 Year Crime Analysis Study for Meadow Brook Road on confidential data supplied by the Yarmouth Police Department.

Summary

1. Residential Alarms incidents	7
Suspicious M/V incidents	10
Sick Swan	

In my opinion this area is very safe and patrolled by Yarmouth Police. I base this on the incidences received.

Residential Alarms	7
Lawn Damage	1
Suspicious M/V	10
Suspicious Persons	4
Post M/V – B & E	1
Youths	1
Parking Violations	1
Drug Offenses	1
Welfare Check	3
Domestic Disturbance	1
Found Property	1
Sick Swan	1
Sick Animal	1
Suicide	1
Medical	2

Larry Fennelly