



CHALLENGING COASTAL SCIENCE FROM A COMMUNITY PERSPECTIVE

PRESENTER: JIM DOUGLAS

PRESIDENT: WESTERN ADELAIDE COASTAL RESIDENTS'
ASSOCIATION INC (WACRA)

FORMERLY: HENLEY AND GRANGE RESIDENTS'
ASSOCIATION INC

This is West Beach viewing North from the Boat Harbour – note the WBSLSC on the very tip of the primary dune - 1995



This is West Beach looking south towards Glenelg 1995 from the WBSLSC.



The West Beach Boat Harbour proposal 1997



West Beach looking north from the Boat Harbour
2 years after construction.
Note: the change in beach profile in just 2 years



MEDIA RELEASE – 22 MAY 1997

RESIDENTS DEMAND ENVIRONMENTAL IMPACT STATEMENT (EIS) ON NEW PLANS FOR BOAT FACILITIES AND STORMWATER AT WEST BEACH

Residents say

“Have all the relevant SA public authorities been involved in the development of these plans. We think not. The project managers are apparently not even using our world renowned South Australian expertise in coastal management to guide this project”

“What long term effect will the proposed launch facility at West Beach have on the beaches to the north? Is the benefit to a few boat owners worth the desecration of our beaches and the enormous ongoing cost of sand management.”

HOUSE OF ASSEMBLY

PUBLIC WORKS COMMITTEE

GLENELG-WEST BEACH DEVELOPMENT WEST BEACH BOATING FACILITY

Wednesday 3 September 1997

Mr Rob Tucker, Manager Coastal Protection Branch said:

“It is estimated that there will be a need to bypass about 40,000 cubic metres of sand from south of the groyne to the north. This can vary from about half that to three times that.”

“If it is found that not as much sand can be bypassed by trucking then the remainder will have to be bypassed by dredging.”

“One should bear in mind that because of the difficulties modelling these facilities to determine what will happen with the sand movement it is possible that the groyne will have to be lengthened in order to stem the flow of sand from the north.”

Coastal Protection Board Report to Development Assessment Commission 8 September 1997

Rob Tucker, presiding member, Coastal Protection Board says in part

“The proposal to construct boating facilities at West Beach conflicts with beach processes at the site by interrupting the natural longshore movement of sand. As a consequence artificial bypassing of sand will be required in perpetuity.”

“The substantial cumulative costs and ongoing nature of this work distinguishes this aspect of the proposal as significant and it must be accepted that the State is bearing the risk of the future consequences given that precise quantification is difficult. Indeed, when constructing intrusions in a natural environment an extreme circumstance that should be acknowledged is the possible future removal of the facility in the event of failure to meet designed use in an economically feasible manner.”

Coastal Protection Board Report continues

Rob Tucker continues to say:

“That any net lock-up of sand within the altered beach shape caused by construction of the facility should be counteracted with a replenishment of the West Beach dunes area with sand from a source external to the beach system.”

In summary the report says in part “The recommendations of the consultant for further modelling of the shoreline be followed through and that the Board be advised of any implications of this further study.”

To our knowledge further modelling did not take place.

Government announces the diversion of polluted stormwater to flow out through the Barcoo Outlet



OCT. 97

HELP SAVE WEST BEACH!

THE THREAT

The Patawalonga Catchment Management Board have recommended to the State Government that **stormwater** from as far away as Stirling and Happy Valley **should be diverted away from it's current coastal outlet in the Patawalonga Basin.**

They propose that it should now flow directly and untreated through a new culvert into the sea at West Beach.

The
Residents' Association
message to the
community warning of
the threat

MEDIA RELEASE - 1 October 1997

PUBLIC RALLY UNANIMOUSLY CONDEMNS BOAT HARBOUR AT WEST BEACH AS ENVIRONMENTAL VANDALISM

Internationally recognised marine scientist Dr Scoresby Shepherd, Australian Greens national leader Senator Bob Brown, surf life savers, environmentalists, politicians and residents gathered with hundreds of beach users on Sunday 28th to condemn the State Government proposal to build a boat launching facility at West Beach.

The rally was organised by the Henley & Grange Residents' Association and West Beach Surf Life Saving Club to bring their concerns about the proposal to the people of South Australia. Objections were based on the economic burden of sand management to the State, the immediate degradation of beaches to the north and the safety risk to boat users particularly in the event of a storm. There was an unlikely alliance of politicians from all Parties agreeing on the undesirable nature of the proposal.

Peter Bardadyn of the West Beach Surf Life Saving Club expressed dismay that they had not been consulted on the proposal when they have the responsibility for safety of beach users at the location of the proposed harbour. He predicts disaster if a sudden storm blows up on a day when many craft and swimmers are in the water near the harbour and stated that the Club does not have the resources to deal with such a situation. The boats will all run for safety at once, in possible heavy seas and squally conditions. There is a possibility that boats will be dashed on the rocks of the harbour itself.

The meeting was warned by Dr Shepherd that any groyne obstructing the beach or coastal area will result in damage to the ecosystem and this is backed up by concerns already expressed publicly by the Coastal Protection Authority to the Public Works Standing Committee.

The boat harbour will consist of thousands of tonnes of rock in an angled wall 22 metres wide at the base and 10 metres high from the sea floor at the centre.

Such a solid obstruction will cause radical deflections of wave energy which will deposit sand in the mouth of the harbour blocking it regularly as happens now at Glenelg. Sand will be depleted further north causing troughs which cause even more disruptions to wave action making sand management impossible and associated costs totally unpredictable.

West Beach Trust Land - the property of the people of South Australia - has been appropriated without community consultation as Crown Land to build the car parks for the harbour. At Glenelg parts of Wigley Reserve - the property of the people of Glenelg - has been appropriated also without consultation and given to private developers making the relocation of the sailing club and boat ramp necessary.

Rally warned by Dr Scoresby Shepherd:

“that any groyne obstructing the beach or coastal area will result in damage to the ecosystem and this is backed up by concerns already expresses publicly by the Coastal Protection Board to the Public Works Standing Committee.”

“Sand will be depleted further north causing troughs which cause even more disruptions to wave action making sand management impossible and associated costs totally unpredictable.”

MEDIA RELEASE - 6 October 1997

MARINE SCIENTISTS OUTRAGED AT BOAT LAUNCHING FACILITY PLANS FOR WEST BEACH

Twelve South Australian marine scientists have jointly signed a letter (see attached) expressing serious concerns about the effects of the proposed boat launching facility at West Beach.

Their concerns support the position of local residents, environmental groups, surf life savers, sailing clubs and the City of Charles Sturt that the proposal will result in environmental and economic vandalism and a loss of our natural beach heritage. They have evidence that beaches to the north of the boat harbour will be at serious risk of sand depletion, particularly with storm attack on the sand dunes.

Bridget Bannear of the Henley & Grange Resident's Association said "This "develop or die" State Government is not listening to anyone except the developers on this matter, even ignoring the advice from their own Coastal Protection Board which was set up by the Government to manage South Australia's coast. The Board's evidence to the Public Works Standing Committee damned the proposal as environmentally and economically unsustainable."

The State Government is giving away beach and public land at Glenelg (currently used for boat launching and trailer parking) to the private developers of the Glenelg project.

West Beach Surf Life Saving Club spokesman Peter Bardadyn said "The Government has failed to listen to our serious safety concerns. We have limited resources so who is going to protect the people who will use this facility?"

Small boat launching facilities are considered "undesirable" in the Glenelg development so the State Government has plans to build a new boat launching facility on public land at West Beach. The "more elegant" yachts will stay at Glenelg.

The boat harbour will cost \$8 million to build and \$700,000 per year in sand management.

A viable alternative exists at far less initial and ongoing cost in the proposal to launch the boats from the northern end of the Patawalonga, entering the sea via the lock at the Pat mouth. This would confine sand management problems and costs to the already existing Glenelg groyne.

Twelve scientists employed by the SA Government signed a letter expressing serious concern about the proposed boat launching facility at West Beach.

“As one of the few pristine beach systems adjacent to a major capital city of Australia, Adelaide’s metropolitan beach is a priceless part of South Australia’s natural heritage.

The boat launching facility will destroy that heritage”

**These scientists were
reprimanded and silenced by
the Government for
expressing their concern**

Glenelg/West Beach Development Stage 2
West Beach Boating Facility
The 64th Report of the Public Works Committee
January 1998

In part

“While Members are satisfied that the safety and social aspects of the proposal have been adequately addressed by the Government, it acknowledges that there is some uncertainty surrounding the sand management aspect of the project and the possible effects the proposed development may have on the metropolitan coastline.”

Battle of boat harbor



ANGRY PROTEST: Residents pack the Henley Town Hall yesterday, pledging to fight on against developers.

Picture: TRICIA JOHNSON

By KAREN MICHELMORE

RESIDENTS opposed to the \$10 million boat harbor at West Beach have vowed to launch a civil disobedience campaign to save their beloved beach.

Five weeks after the Government rubber-stamped the controversial West Beach boat harbor development, residents voted to picket the site 24 hours a day – even if it meant being arrested.

More than 400 locals packed into the Henley Town Hall yesterday for an emotion-charged meeting, organised by the Henley and Grange Residents Associ-

We'll face arrest, say residents

ation, to decide whether to give up the battle, or fight on.

"It can be stopped and it will be stopped," one resident yelled.

More than 100 people signed up on the spot to picket the West Beach site starting this week, with the organising committee arranging to meet tonight to discuss their tactics.

They also voted unanimously to hold a ceremony on the beach to mourn its destruction and the loss of the democratic process.

Residents association executive member, Mr Jim Douglas, said protesters at the rally, to be held at 11.30am on Sunday, February 1, will demand the Government stop the construction of the harbor, conduct a "proper" environmental impact study and examine other options for small boat launching at Glenelg.

"It's a funeral for the beach," he said after the meeting yesterday.

"I am a bit surprised with the passion still left in the people."

Mr Douglas said the power of Government and the developers had done nothing to dampen the spirit of the people.

He said protesters had been labelled "politically motivated", "mad greenies" and "a bunch of self interested people".

"How much wealth and passion is there in this community to get down and actually physically stop this project?" he asked.

He said direct action would be difficult with people needing to be com-

mitted to keep vigil 24 hours a day.

The residents also voted to make a time capsule with the minutes from the meeting and their petitions which could be dug up in several years time, and with "smug satisfaction" they could be proven right.

Charles Sturt Council mayor, Mr John Dyer said he had been "sickened" by the State politics surrounding the issue.

He said the harbor was an "absolute monstrosity" but the council could only continue to support the residents while they acted legally.

Public Meeting
Henley Town Hall
19th January 1998

400 residents join the 'Action Group' to picket the development site at Barcoo Road.

THE SCIENCE FAILED TO
CONVINCE THEM THAT THIS
PROJECT WILL NOT HARM
ADELAIDE'S METROPOLITAN
BEACHES.

Public address at West Beach by the late Dr John R Hailes on 1st February 1998 Author of The Hailes Report on Coastal Management

Dr Hailes warned:

“It is now widely recognised that models generate spurious or sham predictions without reliable and meaningful data from field monitoring over 24 hour tidal cycles.”

“There are innumerable well-documented, world-wide examples of the astronomical economic and social costs associated with the building of groynes and breakwaters. These have been ignored by both the SA Government and the Developers in their haste to commence this project.”

“In conclusion, the community welcomes sound and rational development but not irrational political decisions which are going to burden the public with ***ad infinitum*** costs – which the ***West Beach Boat Harbour Project*** will do if it is not halted.”

**THE SHOW OF COMMUNITY CONCERN
PROTESTERS DRAGGED AWAY FROM THE SITE ON 42 OCCASIONS
ADVERTISER MARCH 1998**



The community blockade at West Beach. 20/3/1998

When the tide goes out, so will the sand

By ELIZABETH ROWE

ADELAIDE'S beaches could be allowed to recede without protection and foreshore properties threatened by erosion may have to be bought out by the State Government under options being considered by a coastal management review.

Other options include building sand traps similar to a controversial breakwater planned for Semaphore Park and dredging sand from outer Harbour to replenish southern beaches.

"There is no doubt schemes are going to cost more than in the past," Coast Protection Board spokesman Murray Townsend said.

"It might come to the point that sand is so expensive that a continuous beach might not be feasible."

The options were likely to be included in a "sand plan" discussion paper due for release later this year.

"In order to get an idea of the value of the coast, we have to consider everything and that would include what the costs would be of letting the coast

recede and not protecting it," Dr Townsend said.

The board has been battling to protect metropolitan beaches since the 1970s, guided by a coastal management strategy, last reviewed in 1997, based on the 30-year-old Culver Report. The report recommended the halting of development on beach and dune areas and

It could affect the ecology

helped establish the Coast Protection Authority.

"Past reviews have all been made on the assumption there would be economic sources of sand to maintain and replenish the coast," Dr Townsend said.

Up to 80,000 cubic metres of sand drifts north along the metropolitan coast each year.

The loss of hundreds of hectares of seagrass from the Gulf since 1949 was a major reason for this.

A source of sand, dredged off Port Stanvac in the 1990s to replenish metropolitan

beaches, had been exhausted and no definite replacement source had yet been identified.

Dr Townsend said the review aimed to spotlight future sources and the impact of taking sand from these sites.

Studies by the University of Adelaide and SA Research & Development Institute are probing the possible environmental impact of dredging sand from a large source, known as the "section bank", off Outer Harbour.

"The bank prevents large waves from entering Barker Inlet," Dr Townsend said.

"If you dredged material from there (the bank), it could affect the ecology of the inlet."

Sand quarries at Mt Compass, and Port Clinton, on Yorke Peninsula about 40km west of Port Wakefield, also were being considered as possible sites from which to truck sand to Adelaide beaches.

"We need to look at whether there is a better way of managing the sand we already have in the system and only bring in as much as we need to fulfil a different strategy," Dr Townsend said.

Advertiser 17th March 2003

Statements by Dr Murray Townsend, Coastal Protection Board spokesman said:

"It might come to the point that sand is so expensive that a continuous beach might not be feasible."

"In order to get an idea of the value of the coast, we have to consider everything and that would include what the costs would be of letting the coast recede."

WACRA says What are the consequences?

- Over 100,000 people visit West Beach Caravan Park and Holiday Village every year.
- This equates to approx 10% of all SA Tourism
- What is the economic loss to the State

Adelaide's Living Beaches:

A Strategy 2005 – 2025

In November 2005, the Government of South Australia endorsed the *Adelaide's Living Beaches: A Strategy for 2005 – 2025*, a new strategy for managing Adelaide's metropolitan beaches.

Major objectives of the Strategy are to protect coastal properties and infrastructure and maintain the amenity of Adelaide's beaches. This is achieved by collecting sand from locations on the metropolitan coast where it accumulates, and recycling it to areas along the central and southern metropolitan coast from where it eroded, within designated sand management cells.

Actively managing the sand maintains Adelaide's beaches for recreation, enjoyment and protection purposes.

Media Release

Wednesday 5th September 2007

Coastal Residents Association says 'Sand Pumping Strategy is Flawed and a Waste of State Money'

The State Government strategy to install a continuous pipeline with an unknown number of huge electric power pumping plants to move sand from North Haven to Kingston Park is unsustainable and a waste of over \$18 million said Jim Douglas President Western Adelaide Coastal Residents Association.

A letter written to the Association from the Project Manager Rob Tucker makes it clear that only sand clear of dead sea grass can be shifted effectively and trucking and front end loaders will still be used on the beaches between the high and low water mark at low tide in areas where dead sea grass collects 'and there are plenty of those places along the coast' said Jim Douglas.

'We are told that there will be a saving of around 20% over ten years but how can you trust this figure when we were told ten years ago that the dredging of the Boat Harbour at West Beach and the movement of accumulated sand and sea weed trapped by the rock groyne would cost \$250,000 a year and it has blown out well over a million dollars'. 'We haven't seen any factoring in of expected sea level rise or the amount of green house gas emitted to drive the pumping stations, so how can we believe that the figures are correct and the system will work'

The letter says that there is still a significant amount of assessment of sand management to be determined during the design stage 'and that can't provide anyone satisfaction at all' said Mr Douglas.

'The dunes at West Beach and Tennyson are being swept away because we have lost at least two metres of sand from the beach level caused by irresponsible developments and massive levels of sediments from the storm water outflows clouding the sea waters, killing off the sea grass and destabilising the sand'.

'It is very poor environmental management to spend massive amounts of money on a system that has yet to be proven effective when that money would be better spent storing and cleaning stormwater from the catchments and protecting Gulf St Vincent' said Mr Douglas.
Contact Jim Douglas phone 83560302 or 0417875232

WACRA President, Jim Douglas said:

“The dunes at West Beach are being swept away because we have lost almost 2 metres of sand from the sea bed caused by irresponsible developments and massive levels of sediments from the storm water outflows killing off the sea grass and destabilising the sand.”



Sand shifting by pipes,
pumps and trucks.

This is what it looks like.

As predicted the system does
not pump sufficient sand to
meet the needs and must be
supplemented by trucking.



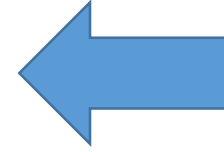
So much for the guarantees
that this system will resolve
the problems.

The community warned the
CPB of dune damage
as a result of installing the
pipes



Photos immediately north of the WBSLSC.
Government assurances that the installation of the
pipeline would not damage the dunes and the
guarantee of a successful revegetation program
FAILED MISERABLY





**TORRENS RIVER
POLLUTED WATER
BREAKOUT CREEK**



**WEST BEACH
SAND EROSION**



WACRA wrote to Environment Minister Hunter in February 2014 expressing a number of concerns with the damage done at West Beach and ask how the Government is going to address the problem. The minister advises as follows:

- Sand mining will continue from the southern side of the Torrens River.
- We have had unusually high seas.
- We are extending the rock wall north of the WBSLSC
- We are continuously engaging with the local community
- The revegetation program after the pipeline was installed is successful
- The ramp access at the WBSLSC is quite vulnerable to changes in the level of the beach at this site

Weekly Times Messenger 8th January 2014

WEST BEACH SURF LIFE SAVING CLUB UNDER THREAT

Club President, Peter Zuill, said:

“We’re looking at the options because of the erosion issues we are having with our location.”

“Erosion caused by wave movement has made the beach outside the current clubrooms almost unusable.”



West Beach Surf Lifesaving Club president Peter Zuill, pictured with lifesaver Abby, 14, says beach erosion could force the club to move. Picture: DYLAN COKE

Beach movement a problem

Tom Conlin

BEACH erosion could force West Beach Surf Lifesaving Club to move to a new location as part of plans for a new \$3 million clubroom.

Club president Peter Zuill said the club expected to spend about \$3 million on a new clubroom over the next four years, including explor-

ing options for a new location.

“We’re looking at the options ... because of the erosion issues we’re having with our location at the moment,” Mr Zuill said.

“It depends what options come out and the benefits and impacts of moving.”

Erosion caused by natural wave movement had made

the beach outside the current clubrooms almost unusable, Mr Zuill told the *Weekly Times Messenger*.

The club will need to raise 11 per cent of the total funds with the rest to be provided by Charles Sturt Council and the State Government under the current club rebuild program arrangements.

WEST BEACH

Beach in bad way – expert

SAND-REPLENISHMENT WORKS NOT HELPING

Dan Jervis-Bardy

WEST Beach is “sick” and the State Government’s strategy of trucking and pumping sand to replenish the metropolitan coastline is not working, a parliamentary committee has heard.

Coastal expert Dr Ian Dyson last week fronted Parliament’s Environment, Resources and Development Committee to discuss his study on the health of Adelaide’s beaches.

“Our beaches are in bad shape and they have been in steady decline for the last 50 years,” Dr Dyson told committee members, including state Labor MP Tom Kenyon, State Greens Leader Mark Parnell and State Shadow Environment Minister Michelle Lensink.

“At West Beach, for instance, there is serious sediment starvation.

“Because there is no build-

“If a storm hits it takes the beach six months to recover.”

- Dr Ian Dyson

up of sand, if a storm hits it takes the beach six months to recover when it should take two.” Dr Dyson said the State Government’s strategy of replenishing beaches via sand pumping and carting had not worked, “despite huge costs”.

The *Weekly Times Messenger* this year reported the State Government had pumped the equivalent of a 1km long, 50m wide and 16m deep area from the Torrens Outlet to replenish Adelaide’s beaches since 1994.

“Beach replenishment ... is a band-aid solution,” Dr Dyson said. He said marinas, rock walls and breakwaters built along the coastline were disrupting the natural northerly sand

drift and leaving beaches such as West Beach “dry”.

He said the West Beach Surf Club, on Seaview Rd, was at risk.

West Beach Surf Club president Peter Zuill said the condition of the foreshore was a “concern”.

“The beach conditions are not the best and if the erosion keeps on going then it isn’t going to just be the surf club that is in danger, it will be the other infrastructure on Seaview Rd as well,” Mr Zuill said.

The *Weekly Times Messenger* this year reported on calls from the West Beach community for the State Environment Department to replenish the beach with thousands of tonnes of sand between the surf club and Adelaide Shores Caravan Park, on Seaview Rd. The ERD Committee accepted Dr Dyson’s invitation to tour West Beach in November.

Coastal Geologist, Dr Ian Dyson, fronted the Parliament’s Environment, Resources and Development Committee to discuss his study on the health of Adelaide’s beaches.

Dr Dyson said:

“Our beaches are in bad shape and they have been in steady decline for the last 50 years.”

“At West Beach, for instance, there is serious sediment starvation.”

“The State Government’s strategy of replenishing beaches via sand pumping and carting had not worked, despite huge costs.”

“Beach replenishment is a band-aid solution.”

NOTE: Dr Dyson will be meeting members of the ERDC Committee on the beaches within the next 2 weeks.

WACRA says “THE SCIENCE HAS FAILED”

- The beaches have not been restored to equilibrium.
- The \$23 million Living Beaches Strategy is not doing the job.
- Bypassing sand at Glenelg and West Beach has blown out from \$750,000 to \$1.59 million a year.
- Installing the pipeline has wrecked the dunes at Henley Beach South and West Beach.
- Sand mining is cutting back the dune contours.
- Sea walls are being undermined and are unstable due to loss of sand depth and increased wave action.
- Polluted waters are still spewing into the Gulf.
- Sea Grass is dying and receding making the sand unstable.
- The CPB and Government are silent on where an additional sand source can be located.
- The State is shifting the responsibility onto Local Government to patch up their ‘stuff ups’.

SUMMARY

Is there any good news?

Where do we go from here?

- We are sure the CPB is concerned, that's why they are calling on the State for more money.
- The recent presentation by Dr Ian Dyson who has been travelling around the world looking at what other countries are doing could provide strategies for some 'trials'.
- Are there other sand sources that need to be found or considered?
- Maybe the Attorney who has carriage of the new Planning and Infrastructure Act will include a more holistic plan that will include the coastline and more responsible development.
- Should we deconstruct 'Blow Up' the man made structures that are impeding the sand movement as proposed by Rob Tucker and the CPB back in 1997?

One thing is for sure, don't just leave the answers up to the scientists. Community do hold a view and they must be listened to.

RELEVANT QUOTES

“WHERE IS THE DUTY OF CARE FOR THE ENVIRONMENT?
PROFIT IS THE DRIVING FACTOR SOLD AS PROGRESS,
JOBS AND BEING GOOD FOR THE ECONOMY”

Dr Barbara R Hardy OA

“I BELIEVE THAT ENGINEERS ARE VERY GOOD AT
DEVELOPMENT AND REMEDIAL ACTION BUT THEY ARE
NOT AT ALL GOOD AT FORSEEING PROBLEMS SUCH AS THE
LONG TERM IMPACT OF A DEVELOPMENT ON THE
NATURAL ENVIRONMENT”

Erik Eckholm (New York Times)

Bibliography

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formerly Henley & Grange Residents Association
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- Coastal Protection Board/Branch
- Department of Environment, Water & Natural Resources
- 12 Scientists employed by SA Government
- Final Report 49th Parliament Public Works Committee
- Dr John Hailes (deceased) Author 'Hailes Report' on
Coastal Management
- Dr Barbara Hardy AO
- Dr Ian Dyson, Geologist
- Dr Murray Townsend CPB
- Mr Rob Tucker, Manager CPB, Project Manager, Adelaide
Living Beaches
- Mr Peter Zuill, President WBSLSC
- Scientists:
S A Shepherd M Env PhD Marine
K Edyvanne PhD Marine Scientist
R McGarvey PhD Marine Scientist
K Jones PhD Marine Scientist

W Dimmlich B Sc Hons Marine Science

B McDonald B Sc Marine Science

R Musgrave PhD Marine Science

M Ayloffe B Sc

A Flaherty B Sc Marine Science

A Fowler PhD Marine Science

G Ferguson B Sc Marine Science

- SAPOL
- Adelaide Living Beaches, SA Govt, Dept
Environment
- Mr Alan Holmes (retired) DEWNR, Chief
Executive

Photography by

- Fernando M. Goncalves
- Peter Zeleny
- Andrew Winkler
- Anne Wheaton

WEST BEACH AS IT ONCE WAS

