

From: RAINBIRD John [John.RAINBIRD@tsra.gov.au]
Sent: Friday, 25 January 2013 2:29 PM
To: MILEY Damian; McGRATH Vic; SKERRITT Shaun; WELSH Bob; LEVI Kevin; Sultmann Sel; 'Pat McGuire'; David Griffin (David.Griffin@tsirc.qld.gov.au)
Subject: FW: Poruma erosion scarp lines [UNCLASSIFIED]
Attachments: Proruma Track.pdf; PorumaSat1.pdf; PorumaPhot1.pdf

Hi all – FYI.

JR

Unclassified Email

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If responding to this email, please send to the appropriate person using the firstname.lastname@tsra.gov.au

From: Parnell, Kevin [mailto:kevin.parnell@jcu.edu.au]
Sent: Thursday, 24 January 2013 2:21 PM
To: RAINBIRD John; SMITH Melanie; Member Poruma; Smithers, Scott
Subject: Poruma scarp lines

Hi all

Attached are maps of the shorelines with the 2012 data included. One is plotted over the 1999 Satellite photo, and the other over the 1988 Aerial. I would like to plot it over the recent orthophoto but I don't have that yet. Mels plot (not cleaned up), over the Orthophoto shows the situation though.

This is a serious situation, and well beyond a trigger point for action that we suggested in our work, if the resort buildings are to survive much longer. There has been 20m or so further scarp erosion over the course of 18 months from mid 2011 to the end of 2012.

KP

Dr Kevin Parnell

School of Earth and Environmental Sciences

Faculty of Science and Engineering

James Cook University, Townsville, QLD 4811, AUSTRALIA

Phone: +61 747814531

Fax: +61 747815581

Mobile: +61 Sgt 4 - Personal Informa

Email: kevin.parnell@jcu.edu.au

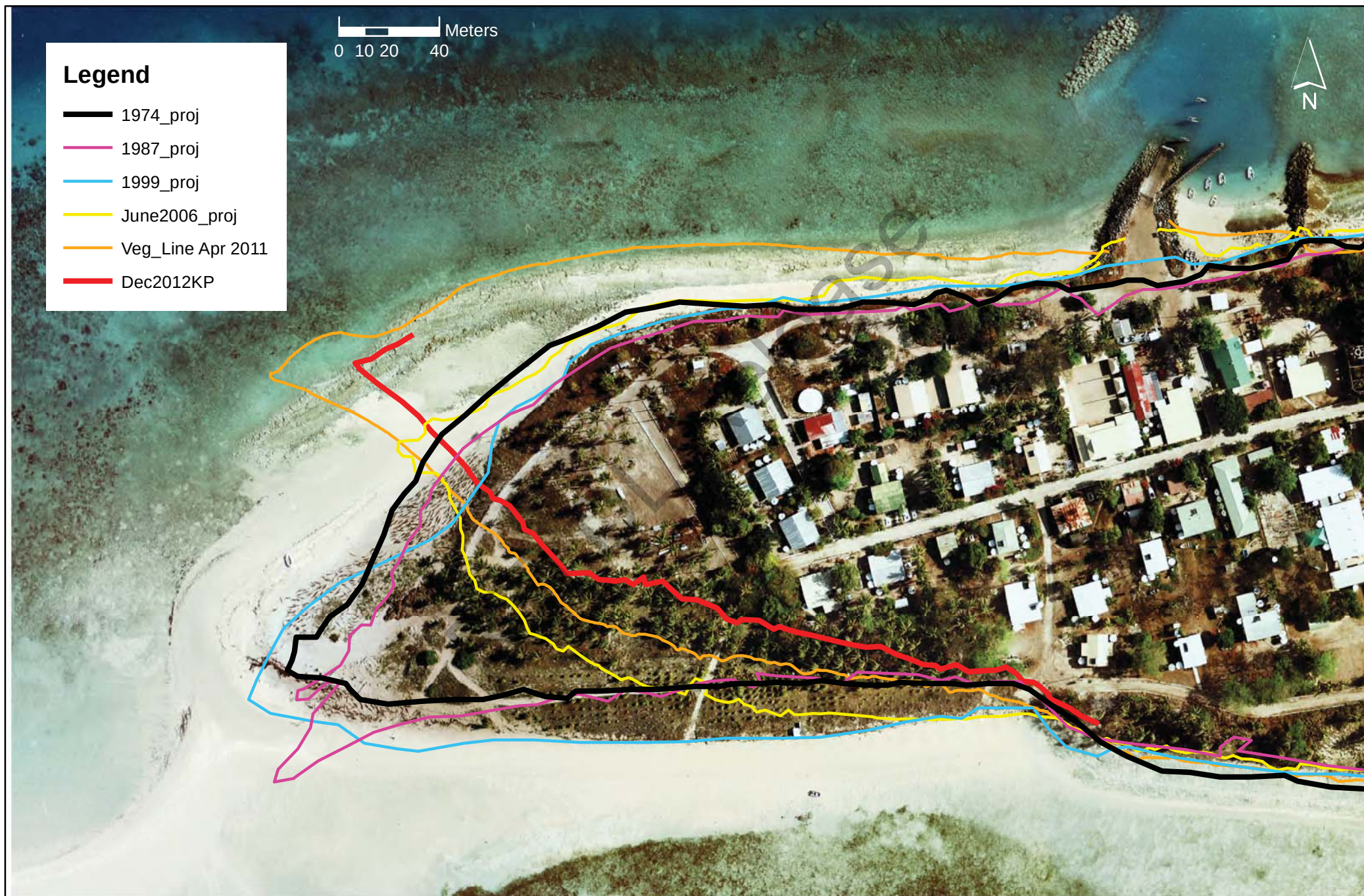
Skype : kevin.parnell OR +61 7 31024781

<http://www.jcu.edu.au/ees/>

Location: Building 34, Room 237

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RTI DL Release







From: Matthews Galen [Galen.Matthews@npsr.qld.gov.au]

Sent: Wednesday, 30 January 2013 1:34 PM

To: Sultmann Sel

Subject: FW: Bribie Island - Fort Bribie Elements.

Attachments: 28 01 2013 Erosion Obeach 083.jpg; 28 01 2013 Erosion Obeach 033.jpg; 28 01 2013 Erosion Obeach 039.jpg; 28 01 2013 Erosion Obeach 074.jpg; 28 01 2013 Erosion Obeach 078.jpg

Hi Sel,

Thought you may be interested to see these. Huge amount of sand has been taken.

Graeme Bulley has posted many other photos of the Bribie eastern beach on t drive/southern/Bribie Island.

Cheers

Galen Matthews

Senior Ranger | Northern Bay Islands | Moreton Bay

Queensland Parks and Wildlife Service

T (07) 3131 2852 M Sch 4 - Personal Information (07) 3131 2890

galen.matthews@npsr.qld.gov.au

Department of National Parks, Recreation, Sport and Racing
34 Trafalgar Street, Manly QLD 4179
PO Box 5178 Manly QLD 4179

From: Bulley Graeme

Sent: Wednesday, 30 January 2013 1:22 PM

To: Heritage

Cc: Rogers Scott; Smith Sybil; Cambourn Neil; Allan Rob; Matthews Galen

Subject: Bribie Island - Fort Bribie Elements.

This is to advise that as a result of the severe weather and strong storm surge there has been extensive erosion along the eastern beach of Bribie and some of the elements are now in the active surf zone. There are further photos on T drive / Southern/ Bribie Island.

Regards

Graeme Bulley

Ranger in Charge | Bribie Island

Moreton Bay Region

Queensland Parks and Wildlife Service

T (07) 3408 8451 | F (07) 3408 8495 |

M Sch 4 - Personal Information

Graeme.Bulley@npsr.qld.gov.au |

PO Box 324 Bribie Island QLD 4507



29/01/2013 14:35



29/01/2013 14:39



29/01/2013 15:22



29/01/2013 15:28



29/01/2013 15:30

From: Sultmann Sel [Sel.Sultmann@ehp.qld.gov.au]

Sent: Thursday, 31 January 2013 4:56 PM

To: Robby@neta.com.au

Subject: FW: Bribie Island erosion

Attachments: 28 01 2013 Erosion Obeach 083.jpg; 28 01 2013 Erosion Obeach 039.jpg; 28 01 2013 Erosion Obeach 044.jpg

[A few new bunkers on the beach at bribie](#)

Sel Sultmann
Principal Coastal Scientist
Environment Policy and Planning
Dept of Environment and Heritage Protection

Ph: (07) 33305768

E-mail: sel.sultmann@ehp.qld.gov.au

GPO Box 2454 BRISBANE, QLD, 4001

Level 9 400 George St Brisbane

www.ehp.qld.gov.au.

From: Sultmann Sel

Sent: Wednesday, 30 January 2013 3:18 PM

To: Mick Smith; Denis Shaw

Subject: Bribie Island erosion

Hi all

Bribie Island copped a hammering. Trying to get info on any washover at the breakthrough points

Sel Sultmann
Principal Coastal Scientist
Environment Policy and Planning
Dept of Environment and Heritage Protection

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Level 9 400 George St Brisbane

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29/01/2013 14:39



29/01/2013 14:41



29/01/2013 15:30

From: Sultmann Sel [Sel.Sultmann@ehp.qld.gov.au]

Sent: Monday, 4 February 2013 11:27 AM

To: Lane John; Smyth Louise

Subject: Beach erosion on Great Keppel Island

Attachments: Keppel Haven Inspection 310113 010.jpg; Keppel Haven Inspection 310113 011.jpg

Fyi, fuel storage facility and other buildings on Putney Beach, Great Keppel Island under imminent threat of erosion. This is part of the Keppel Reef Scuba Adventures tourist facility which sits on a lease over state land. I will be giving the region some assistance on identifying long term coastal processes and erosion management.

Sel Sultmann

Principal Coastal Scientist

Environment Policy and Planning

Dept of Environment and Heritage Protection

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www.ehp.qld.gov.au.

RTI DL Release



Release



From: Denise Lindon [denise.lindon@sunshinecoast.qld.gov.au]

Sent: Monday, 11 February 2013 8:46 AM

To: Sultmann Sel

Subject: FW: Bribie Island Erosion Monitoring Results

Attachments: Bribie Erosion Comparison Data_Jul 2012_Feb 2013.xls; Bribie Erosion Photos Jul 2012_Feb 2013.pdf

Hi Sel,

For your information. Sorry if Denis Shaw has already sent this through to you.

Regards,

Denise Lindon | *Team Leader Waterways Operations*

Waterways Operations | Environmental Operations

Infrastructure Services | Sunshine Coast Regional Council

Phone: 07 5499 5119

Mobile: Sch 4 - Personal Information

Email: denise.lindon@sunshinecoast.qld.gov.au

Website: www.sunshinecoast.qld.gov.au

Mail: Locked Bag 72 Sunshine Coast Mail Centre Qld 4560

Please consider the environment before printing this email

From: Denise Lindon

Sent: Wednesday, 6 February 2013 3:53 PM

To: Chris Allan; Denis Shaw

Cc: Gordon Agnew; Josh Walton; Hannah Mcmillan

Subject: Bribie Island Erosion Monitoring Results

Hi All,

Please find attached the Bribie Island erosion monitoring results at the 4 sites of concern from July 2012 and February 2013 (today). Results show there has been an average loss dune of 11.2 metres. I have attached the data and the photo comparisons for your information.

Thanks to Gordon, Josh and Hannah for undertaking the monitoring.

Regards,

Denise Lindon | *Team Leader Waterways Operations*

Waterways Operations | Environmental Operations

Infrastructure Services | Sunshine Coast Regional Council

Phone: 07 5499 5119

Mobile: Sch 4 - Personal Information

Email: denise.lindon@sunshinecoast.qld.gov.au

Website: www.sunshinecoast.qld.gov.au

Mail: Locked Bag 72 Sunshine Coast Mail Centre Qld 4560

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Bribie Island Erosion

Site	Latitude	Logitude	Marker Peg to Dune Edge (m)		Loss of Dune (m)
			July 2012	February 2013	
Site BEM-01	26.824363	153.131815	15.60	6.80	8.80
Site BEM-02A	26.83846	153.128922	30.55	19.80	10.75
Site BEM-03A	26.84119	153.12859	41.22	30.70	10.52
Site BEM-04	26.854845	153.129301	18.70	3.88	14.82
				Average Loss	11.22

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Site 1 (Looking North)



July 2012



February 2013

Site 1 (Looking South)



July 2012



February 2013

Site 2 (Looking North)



July 2012



February 2013

Site 2 (Looking South)



July 2012



February 2013

Site 3 (Looking North)

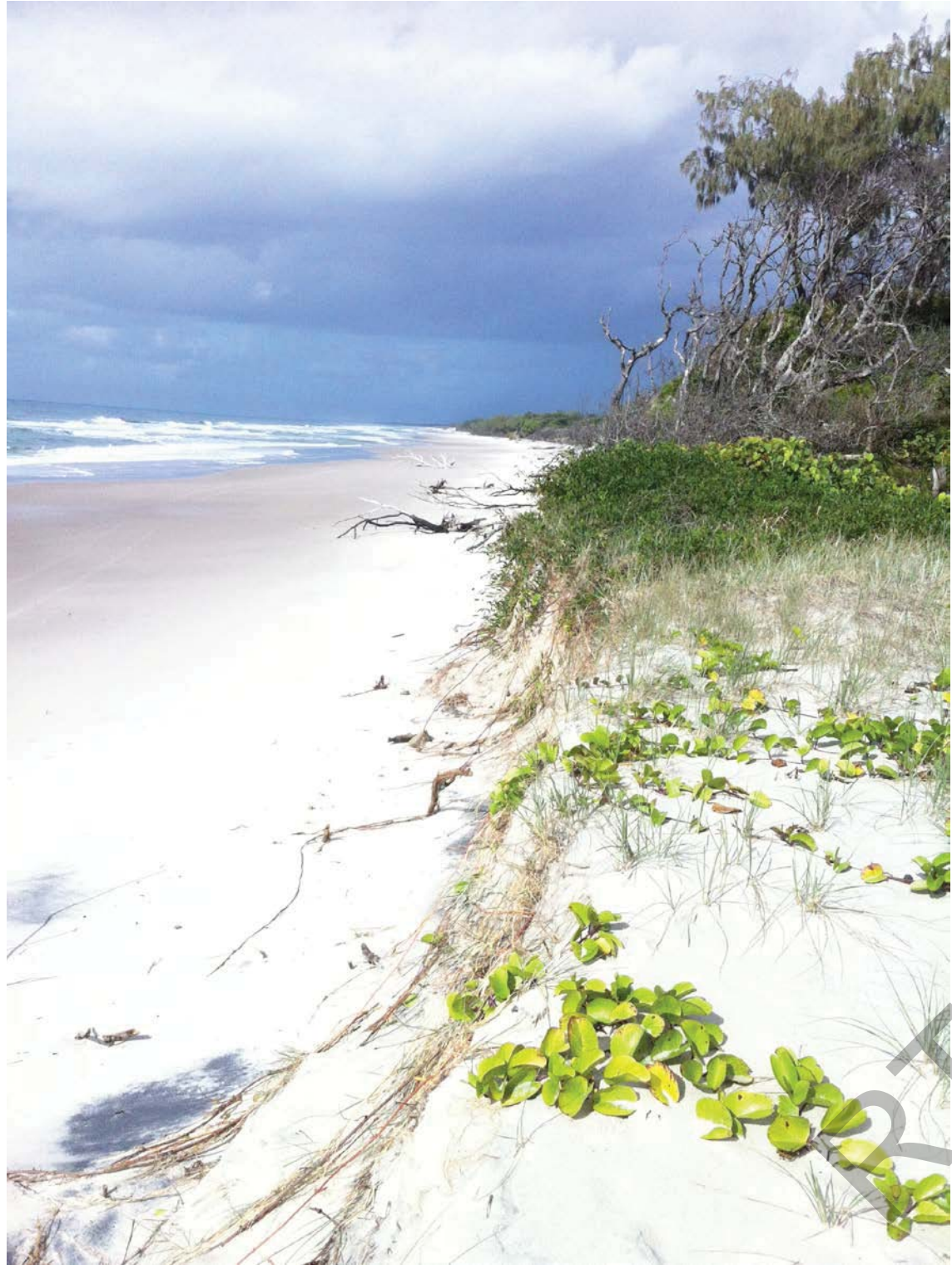


July 2012



February 2013

Site 3 (Looking South)



July 2012



February 2013

Site 4 (Looking North)



July 2012



February 2013

Site 4 (Looking South)



July 2012



February 2013

From: Hughes Hazel [Hazel.Hughes@ehp.qld.gov.au]
Sent: Thursday, 21 February 2013 6:04 PM
To: Sultmann Sel
Subject: FW: Erosion issues - Fitzroy Island

From: Doug Gamble [mailto:dgamble@redco.com.au]
Sent: Thursday, 21 February 2013 5:08 PM
To: Hughes Hazel
Cc: Shaun Gamble; Tanya Foy; mscott@redco.com.au; gm@fitzroyisland.com; Tansley Filiz; Sultmann Sel; Darryl Ahlers; s.morgan@cairns.qld.gov.au; Grant Ian
Subject: RE: Erosion issues - Fitzroy Island

Thanks Hazel,

Confirming my subsequent further discussions with you, I would be happy to and welcome a call from Sel prior to your visit to the island.

All the relevant stakeholders involved with the beach-frontage at Welcome Bay have had numerous previous discussions on this matter, over the last two and a half years, and at the last formal meeting Fitzroy Island Resort, as the only resident stakeholder living on the island and the only party, at that stage, prepared to contribute capital and labour towards taking corrective action, were given approval to re-nourish the worst eroded areas of the beach by taking both sand and coral from the northern end of the beach and in the vicinity of the main creek mouth.

A test effort was made by us but the only suitable equipment we then had available – a rented backhoe – got dangerously bogged in the steeply sloping coral rubble at the creek mouth and the effort was abandoned. We then heard that Sel was visiting the area and that we should await his inspection. However such proposed visit had to be unfortunately abandoned and no further work has been carried out by us, other than the fact that we have purchased both sand bags and geotech bags to strengthen areas around the two key areas most seriously affected by Cyclone Yasi, being, firstly, directly in front of our swimming pool area (north of the jetty) and, secondly, in front of “Foxy’s” (our Bar and Grill). It should be noted that the Esplanade area in front of our swimming pool area is in danger of being closed to traffic, for access to both our property and the Council Campground and the National Park property.

Sch 4- Personal Information

and have thus had the chance to constantly observe both the sea current flows and beach movements (during the “dry season” south easterlies and the damaging storm action during the “wet” season northerlies). I have also had the advantage of holding discussions with long term visitors to the island, being both residents of Cairns and the island, as well as traditional owners from the Yarrabah community. As such, and as the person most likely to be expected to fund a large share of the restoration works – even though the damaged area, being the beach front and the Council owned Esplanade, is not part of our property – I do expect to have a say in any proposed works. In that respect I would welcome any positive advice by Sel.

As noted above I will be in Adelaide at the time of your visit to the island and in my absence will arrange for our Island General Manager, Glen Macdonald, to meet with you and Sel. I will also, as stated above, welcome a prior call from Sel and confirm that I will be available to accept such call (on **Sch 4- Personal Information**) either on Monday afternoon (25th) or any time Tuesday (26th). The rest of the time that week I will either be **Sch 4- Personal Information**

Regards, Doug Gamble
Fitzroy Island Investments Pty Ltd
Redco Investments Pty Ltd

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From: Hughes Hazel [mailto:Hazel.Hughes@ehp.qld.gov.au]
Sent: Wednesday, 20 February 2013 4:14 PM

To: Doug Gamble
Cc: Darryl Ahlers; gm@fitzroyisland.com; Tansley Filiz; Sultmann Sel
Subject: Erosion issues - Fitzroy Island

Doug

As discussed, Sel Sultmann will be visiting Fitzroy Island on **Thursday 28 February 2013** for the purpose of coastal erosion issues at Fitzroy Island.

You advised that you are unable to be present during this inspection but may be able to organise a representative from Fitzroy Island Resort to convey your concerns to Sel during the inspection.

Could you please provide the details of your representative to me and a time to meet with your representative at Fitzroy Island?

Sel and I will depart Cairns at 9:30am on the Sunlover reef cruises and will arrived at Fitzroy Island at 10:30 am.

Kind Regards

Hazel Hughes
Environmental Officer
Environmental Services & Regulation, North Region
Department of Environment and Heritage Protection
5b Sheridan St, Cairns QLD 4870
PO Box 937, Cairns QLD 4870

Telephone: 07 4222 5308 **Facsimile:** 07 4222 5070

Email: hazel.hughes@ehp.qld.gov.au

Website: www.ehp.qld.gov.au

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From: Sch 4 Personal information

Sent: Monday, 25 February 2013 2:38 PM

To: Prenzler Paul; Sultmann Sel; Todd Derek

Subject: toogoom erosion

Attachments: 100_0507.JPG; 100_0508.JPG; 100_0510.JPG; 100_0511.JPG; 100_0513.JPG; 100_0514.JPG; 100_0499.JPG; 100_0500.JPG; 100_0501.JPG

RTI DL Release



















From: Matthews Galen [Galen.Matthews@nprsr.qld.gov.au]
Sent: Wednesday, 6 March 2013 12:02 PM
To: Sultmann Sel
Subject: Bribie visit
Attachments: Ocean Beach 02-03_03_2013 017.jpg; 28 01 2013 Erosion Obeach 039.jpg

Hi Sel,

Thanks for coming up to Bribie the other week to take a look at the beach erosion.

I have attached a couple of pics to show further erosion since then at the Northern Gun.

You mentioned you were hoping to map the erosion against previous data. Are you able to send through some report or comment from the recent trip? If you have been able to plot the recent erosion and compare against previous data I would be keen to take a look if possible.

Cheers

Galen Matthews
A/Area Manager | Moreton Bay
Queensland Parks and Wildlife Service
T (07) 3131 2852 M SC 4 F (07) 3131 2890
galen.matthews@nprsr.qld.gov.au

Department of National Parks, Recreation, Sport and Racing
34 Trafalgar Street, Manly QLD 4179
PO Box 5178 Manly QLD 4179

RTI DL Release



29/01/2013 14:39



03/03/2013 09:38

From: Hughes Hazel [Hazel.Hughes@ehp.qld.gov.au]
Sent: Wednesday, 13 March 2013 5:13 PM
To: Sultmann Sel
CC: Tansley Filiz
Subject: Beach Erosion - Fitzroy Island

Sel

Doug rang me this morning advising that he had to take some emergency measures at Fitzroy Island by moving some materials from the mouth of the creek and relocate to an area where electrical cables were being exposed.

Doug [Sch 4 - Personal Information] and would appreciate if you could contact him on ph: [Sch 4 - Personal Information] to discuss this matter whilst he is waiting for EHP's observation during the site visit of 28 February 2013 on this matter?

Also, would an approval be required for the moving of materials from a section of the beach to another to manage the erosion issue within the erosion prone area of Fitzroy Island Resort?

Kind Regards

Hazel Hughes
Environmental Officer
Environmental Services & Regulation, North Region
Department of Environment and Heritage Protection
5b Sheridan St, Cairns QLD 4870
PO Box 937, Cairns QLD 4870

Telephone: 07 4222 5308 **Facsimile:** 07 4222 5070
Email: hazel.hughes@ehp.qld.gov.au
Website: www.ehp.qld.gov.au

From: Hughes Hazel
Sent: Monday, 11 March 2013 5:57 PM
To: Tansley Filiz; Sultmann Sel
Subject: FW: Beach Erosion - Fitzroy Island

From: Doug Gamble [mailto:dgamble@redco.com.au]
Sent: Monday, 11 March 2013 5:20 PM
To: Hughes Hazel
Cc: Glen Macdonald; mscott@redco.com.au; s.morgan@ Cairns.qld.gov.au; Resort Maintenance
Subject: Beach Erosion - Fitzroy Island

Thanks Hazel. Further to my email below, I have noted today that, with the extremely high tides over the last few days, not only is the sea under-mining the trees in the vulnerable area in front of our swimming pool – by swirling away the sand under-laying the top 4-500mm of rainforest soil and root matting - but it has now exposed about five metres of deep trenched electrical cable – laid under the road several years ago (presumably to the jetty structure).

I need to know how long it will be before we receive the report from Sel. Anything further than a couple of days will imply that I will have to take emergency action to protect human safety and both the Council Road (and underlying services) and our property, without the benefit of his input. I can if you want send you a photograph of the exposed electrical cable, but this will not delay our necessary deadline in taking emergency action.

I would appreciate a call from Sel to discuss this matter, rather than await his report. He has my mobile number.

Regards, Doug Gamble
Fitzroy Island Investments Pty Ltd
Redco Investments Pty Ltd

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From: Hughes Hazel [<mailto:Hazel.Hughes@ehp.qld.gov.au>]
Sent: Monday, 11 March 2013 9:35 AM
To: Doug Gamble
Subject: RE: Helipad - Fitzroy Island

Doug

Thanks. Sel will be providing comments on the erosion issues at Fitzroy Island.

I will contact Sel today to find out how far he is with his comments and I provide the comments to you as soon as possible.

Kind Regards

Hazel Hughes
Environmental Officer
Environmental Services & Regulation, North Region
Department of Environment and Heritage Protection
5b Sheridan St, Cairns QLD 4870
PO Box 937, Cairns QLD 4870

Telephone: 07 4222 5308 **Facsimile:** 07 4222 5070

Email: hazel.hughes@ehp.qld.gov.au

Website: www.ehp.qld.gov.au

From: Doug Gamble [<mailto:dgamble@redco.com.au>]
Sent: Sunday, 10 March 2013 10:53 AM
To: Hughes Hazel; gm@fitzroyisland.com
Cc: s.morgan@cairns.qld.gov.au
Subject: RE: Helipad - Fitzroy Island

I am now back on the island and would appreciate receipt of Sel's report as soon as possible, especially as I have noted on my return further under-cutting erosion of the trees along the roadway in front of our swimming pool area. Several of these trees have fallen over on to the beach recently and others are in danger of so doing. The matter needs urgent attention.

Regards, Doug Gamble
Fitzroy Island Investments Pty Ltd
Redco Investments Pty Ltd

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From: Hughes Hazel [<mailto:Hazel.Hughes@ehp.qld.gov.au>]
Sent: Friday, 1 March 2013 11:59 AM
To: gm@fitzroyisland.com; Doug Gamble
Subject: Helipad - Fitzroy Island

Glen

Thanks for your assistance during yesterday's visit. I will provide you a summary of our observations regarding the concern of beach erosion next week.

As discussed, Patrick Davitt is no longer working with EMQ. Darryl Humphreys has been appointed in Patrick's position.

Darryl's contact detail is listed below:

Darryl Humphreys
Base Manager
Queensland Emergency Services
ph: (07) 4035 9088
Email: darryl.humphreys@dcs.qld.gov.au

Should you require further information, please do not hesitate to contact me on (07) 4222 5308.

Kind Regards

Hazel Hughes
Environmental Officer
Environmental Services & Regulation, North Region
Department of Environment and Heritage Protection
5b Sheridan St, Cairns QLD 4870
PO Box 937, Cairns QLD 4870

Telephone: 07 4222 5308 **Facsimile:** 07 4222 5070
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From: Sultmann Sel [Sel.Sultmann@ehp.qld.gov.au]

Sent: Monday, 18 March 2013 11:19 AM

To: Lane John; Smyth Louise; Prenzler Paul; Sale Ben; Allen Mark; Brown Lynda; Polzi Nicole; Simmons Catie; Townsend Roslyn

CC: 'Denis Shaw'; Mick Smith; Michaels Paul

Subject: FW: Bribie visit

Attachments: Ocean Beach 02-03_03_2013 017.jpg; 28 01 2013 Erosion Obeach 039.jpg; DSCF6930.JPG

FYI. Erosion of northern Bribie Island and exposure of world war 2 bunkers. At this location we had estimated 15-20m of recession in late Feb following ex cyclone Oswald. Now further back and still going. Island breakthrough risk is certainly on the uptick.

Denis, I would appreciate any recent pics that become available of the area opposite Bells Creek especially helicopter. When inspected on 7 Feb constructed dune ridge was still intact but dune had narrowed and probably less than 30m wide back to Punicestone Passage tidal limit - see photo..

Sel Sultmann
Principal Coastal Scientist
Environment Policy and Planning
Dept of Environment and Heritage Protection

Ph: (07) 33305768
E-mail: sel.sultmann@ehp.qld.gov.au
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Level 9 400 George St Brisbane

www.ehp.qld.gov.au.

From: Matthews Galen

Sent: Wednesday, 6 March 2013 12:02 PM

To: Sultmann Sel

Subject: Bribie visit

Hi Sel,

Thanks for coming up to Bribie the other week to take a look at the beach erosion.

I have attached a couple of pics to show further erosion since then at the Northern Gun.

You mentioned you were hoping to map the erosion against previous data. Are you able to send through some report or comment from the recent trip? If you have been able to plot the recent erosion and compare against previous data I would be keen to take a look if possible.

Cheers

Galen Matthews
A/Area Manager | Moreton Bay
Queensland Parks and Wildlife Service
T (07) 3131 2852 M Sel 4 - Personal F (07) 3131 2890
galen.matthews@nprsr.qld.gov.au

Department of National Parks, Recreation, Sport and Racing
34 Trafalgar Street, Manly QLD 4179
PO Box 5178 Manly QLD 4179



29/01/2013 14:39





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Sent: Monday, 18 March 2013 11:19 AM

To: Lane John; Smyth Louise; Prenzler Paul; Sale Ben; Allen Mark; Brown Lynda; Polzi Nicole; Simmons Catie; Townsend Roslyn

CC: Denis Shaw; Mick Smith; Michaels Paul

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Sel Sultmann
Principal Coastal Scientist
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To: Sultmann Sel
Subject: Bribie visit

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Galen Matthews
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galen.matthews@nprsr.qld.gov.au

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From: Clements Julie (EHP) [Julie.Clements@ehp.qld.gov.au]
Sent: Wednesday, 20 March 2013 5:07 PM
To: DLO EHP
CC: Lane John; Roberts Tony; Sultmann Sel
Subject: FW: ***DUE 12:00 WEDNESDAY 20 MARCH***FW: Management of erosion at Moore Park Beach
Attachments: DOC 13 ~ tropical cyclone Oswald and requesting a specialist study be initiated into practical options to mitigate further erosion of the foreshore.pdf; DLO request - update.docx; DLO request Moore Park - FINAL.docx

Due By: Wednesday, 20 March 2013 3:00 PM

Hi Gary

Apologies for the delay, please find attached dot points as requested regarding Moore Park.

Kind Regards

Julie Clements | Executive Assistant
Office of the Deputy Director-General | Environmental Policy and Planning
T: 07 3330 5945 **X:** 25945 **E:** julie.clements@ehp.qld.gov.au
Department of Environment and Heritage Protection
Level 10, 400 George Street, Brisbane Q 4000
GPO Box 2454, Brisbane, QLD 4001
www.ehp.qld.gov.au

From: Clements Julie (EHP)
Sent: Monday, 18 March 2013 9:47 AM
To: Sultmann Sel
Cc: Lane John; Roberts Tony
Subject: ***DUE 12:00 WEDNESDAY 20 MARCH***FW: Management of erosion at Moore Park Beach

Dear Sel

Could you please provide dot points (using the attached template) as requested by the DLO?

The dot points should provide information on 'coastal erosion at Moore Park/the need for a specialist study of options to mitigate erosion' to assist Rachel Lunnon in her preparation of the response to the attached letter.

Due back to me for Tony's approval by **12:00pm Wednesday 20 March**.

Many thanks Sel.

Julie Clements | Executive Assistant
Office of the Deputy Director-General | Environmental Policy and Planning
T: 07 3330 5945 **X:** 25945 **E:** julie.clements@ehp.qld.gov.au
Department of Environment and Heritage Protection
Level 10, 400 George Street, Brisbane Q 4000
GPO Box 2454, Brisbane, QLD 4001
www.ehp.qld.gov.au

From: Shaw Gary **On Behalf Of** DLO EHP
Sent: Friday, 15 March 2013 5:02 PM
To: Corro EHP EPP DDG
Cc: Clements Julie (EHP); rachel.lunnon@premiers.qld.gov.au
Subject: Management of erosion at Moore Park Beach

Hi Julie

Re: Management of erosion at Moore Park Beach

The Premier has received the attached letter regarding coastal erosion at Moore Park beach.

Rachel Lunnon of DPC is preparing the response.

Please provide dot points regarding the coastal erosion at Moore Park/the need for a specialist study of options to mitigate erosion, to assist in preparing the DPC response.

Rachel has discussed this issue with Sel Sultmann.

Please provide to me by 3pm Wednesday, 20 March 2013.

Thanks
Gary

Gary Shaw
Departmental Liaison Officer
Department of Environment and Heritage Protection
Level 13
400 George Street BRISBANE

Tel: 07 - 3330 6250 Fax: 07 - 3330 6306
E-mail: Gary.Shaw@ehp.qld.gov.au
visit us at <http://www.ehp.qld.gov.au/>

From: Rachel Lunnon [<mailto:Rachel.Lunnon@premiers.qld.gov.au>]
Sent: Friday, 15 March 2013 1:32 PM
To: Shaw Gary
Subject: seeking advice re management of erosion at Moore Park Beach

Hi Gary,

The Premier has received the attached letter regarding coastal erosion at Moore Park beach and I am preparing a response. Would it be possible for EHP to provide me with some advice re the coastal erosion at Moore Park/the need for a specialist study of options to mitigate erosion, to assist in preparing the DPC response. I have also discussed this issue with Sel Sultmann.

If you EHP could get back to me with any advice by 20 March it would be appreciated.

Happy to discuss.

Thanks
Rachel

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RTI DL Release

[ENTER NAME OF BUSINESS AREA] RESPONSE TO MINISTER'S OFFICE REQUEST

REQUEST DATE:

ISSUE:

QUESTION/S:

-
-

CUSTOMER FOCUSED RESPONSE:

-
-

BACKGROUND (Remove this section if not required):

-
-

CONSULTATION UNDERTAKEN (Remove this section if not required):

Internal:

-

External:

-

MAP DETAILS (Remove this section if not required):

-

CONFIDENTIAL – FOR MINISTER'S INFORMATION ONLY*Please delete this box if there is no confidential information.*

Business Area:			
Briefing Officer: (Name and title)		Telephone:	Date:
Approving Officer: (Name and title)	13-064 DL File A Pg 56 of 116	Telephone:	Date:

DEPARTMENT OF ENVIRONMENT AND HERITAGE PROTECTION

ENVIRONMENTAL PLANNING RESPONSE TO MINISTER'S OFFICE REQUEST

REQUEST DATE: 15 March 2013

ISSUE: Request by resident for the government to initiate a study into practical options to mitigate further erosion at Moore Park, Bundaberg Regional Council.

QUESTION/S:

- Can the government immediately initiate a specialist study into practical options to mitigate further sea erosion of the foreshore at Moore Park?
- Confirm government policy that erosion control works can be considered when property is under threat from sea erosion.

CUSTOMER FOCUSED RESPONSE:

- The State government commissioned a major coastal investigation into the Hervey Bay and Bundaberg region in 1989 which included Moore Park. The Hervey Bay Beaches report investigated coastal erosion causes and threats for Moore Park, and provided recommendations for future management which are still applicable today.
- Based on this report, new development since the late 1980s has been set back up to 200m from the coast to ensure there was minimal risk from coastal erosion.
- The older part of the Moore Park Township is within a declared erosion prone area. Most of it is therefore set well back from the coast and the risk to houses from sea erosion is currently low.
- The Moore Park Beach Surf Club building is under imminent threat from sea erosion and the building owners are currently proposing to relocate the building further landward — an effective solution which would avoid the costly construction of a seawall and likely loss of the beach.
- Coastal policy in Queensland has always provided for the protection of life and property. The government would therefore support protection works for houses and roads if these come under imminent threat from sea erosion.
- Where there is a threat to development on the coast, the government would support councils undertaking a shoreline erosion management plan (SEMP) to better understand the risks and to develop solutions.
- The future risk from sea level rise may also be considered in a SEMP, with the department able to provide mapping which indicates this risk to Moore Park.
- The Department of Environment and Heritage Protection can provide technical support to councils for a SEMP and further information can be found on the department's web site.

BACKGROUND:

- Moore Park is located on a relatively low lying coastal plain and is highly vulnerable to storm tide inundation. The area is very flat and low, and experiences flooding of low lying areas during high rainfall events.
- The sea erosion threat is considered to be moderate to low for most of the community.
- The surf club building, which was built close to the beach many decades ago, has been damaged by sea erosion. Proposed replacement and relocation further landward has been supported by the department.
- The Kolan River to the immediate north of Moore Park has cut a new entrance through the dunes during recent flooding. This may increase erosion of dunes at the northern end of the township as the coastline re-adjusts, but no threat to development is envisaged.
- An electronic copy of the Hervey Bay Beaches report can be provided if required.

CONSULTATION UNDERTAKEN:

Internal: Tim Brain, Manager, Wide Bay Burnett.

External: Nil

Business Area:	Environmental Policy and Planning Division		
Briefing Officer:	Sel Sultmann	Telephone: 3330 5768	Date: 20 March 2013
Approving Officer:	Tony Roberts	13-064 DL File A Pg 57 of 116	Telephone: 3330 5990
			Date:

Digitised?	YES	NO
If digitised, this is now an ELECTRONIC DOCUMENT. ENTER ALL DATA IN TRIM.		
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Date	20 FEB 2013	in
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Document No:		
File No:		
Tracking Folder No:		

Sch 4- Personal information

Hon Campbell Newman MP
Premier of Queensland
PO Box 15185
City East
QLD 4002

February 14th 2013

Dear Premier

I write on behalf of many residents of the coastal township of Moore Park Beach.

As a result of the recent tornado and floods associated with ex-tropical cyclone Oswald, significant damage was caused to houses at Moore Park Beach, including mine. The sand dunes suffered extensive erosion and the Kolan River mouth shifted to the south, effectively washing away part of the Kolan River Conservation Park. This Park is very popular for camping and fishing but the erosion means that the public can no longer visit.

The recent damage to houses and the foreshore areas has frightened many residents, particularly given the prospect of climate change and sea level rise. The predicted increase of 80cm in the sea level by 2100 would be catastrophic for Moore Park Beach. The Moore Park Beach Surf Club building has already suffered severe damage. I do not believe any level of Government can ignore this threat to private and public infrastructure which would cost millions of dollars and destroy the lives of thousands of people.

I understand that under your Government's Coastal Management Policy, erosion control works can be considered when property is under threat. Given the recent disaster, the projected sea level rise and the very real fears of residents of Moore Park Beach, I ask that your Government immediately initiate a specialist study into practical options to mitigate further erosion of the foreshore. I am

Sch 4- Personal information and am confident that sensible options to protect Moore Park Beach would be supported.

I look forward to your support and am prepared to discuss this issue in more detail.

Yours sincerely

Sch 4- Personal information

cc: Mr Stephen Bennett MP, State Member for Burnett
 Mr Paul Neville MP, Federal Member for Hinkler
 Cr Mal Forman, Mayor of Bundaberg Regional Council
 Dr Evelynne Meier, Chairman, Burnett Mary Regional Group

From: Sultmann Sel [Sel.Sultmann@ehp.qld.gov.au]
Sent: Wednesday, 27 March 2013 4:05 PM
To: Sale Ben
CC: Prenzler Paul
Subject: RE: Nth Bribie Island
Attachments: 2007 DG brief and Report Bribie.pdf

Hi Ben

This was the report and brief sent to the DG seeking approval for the foredune reconstruction on Bribie in 2007. Brief was approved. It contained at the end of the report a position statement for the then EPA to adopt.

Roles are a bit more complex now with NP split off. I guess its an NPRSR problem if somebody wants the breakthrough fixed on the island, and a council problem to address impacts on Golden Beach. As the regulator and state lead on coastal management we are right in the middle.

Sel Sultmann
Principal Coastal Scientist
Environment Policy and Planning
Dept of Environment and Heritage Protection

Ph: (07) 33305768
E-mail: sel.sultmann@ehp.qld.gov.au
GPO Box 2454 BRISBANE, QLD, 4001
Level 9 400 George St Brisbane

www.ehp.qld.gov.au.

From: Sale Ben
Sent: Wednesday, 27 March 2013 3:16 PM
To: Sultmann Sel
Cc: Prenzler Paul; Garner Rod
Subject: FW: Nth Bribie Island

Hi Sel

I'm sure there are others – would like to get a position statement together prior to the inquiries coming in – what role do we have? What about NPRSR??

Thanks

Ben

Ben Sale
A/Regional Manager, Environmental Services (East)
Environmental Services and Regulation
Southern Region
Ph: 07 5459 6136 | **Fax:** 07 5459 6190 | **M:** Sel - Personal Information
Department of Environment and Heritage Protection
P.O Box 362, Maroochydore, QLD 4558

From: Garner Rod
Sent: Wednesday, 27 March 2013 3:12 PM

To: Sale Ben
Subject: RE: Nth Bribie Island

I don't particular monitor the Bribie Island situation, however I do remember hearing the Sunshine Coast Regional Council Mayor on ABC morning radio 90.5 recently talking about the Bribie break through.

I found this on the web <http://www.abc.net.au/news/2013-03-15/bribie-island-ocean-break-through-fears-re-emerge/4574654>

Attached is a historical photo I have of the northern end of Bribie Island so you can see the changes since the 1900's

Rod Garner

MMarSt J.P.(Qual)
A/Principal Environmental Officer
Environmental Services and Regulation
Southern Region (Sunshine Coast & Gympie)
Department of Environment & Heritage Protection
Ph 07 5459 6138 | Fax 07 5459 6190
Level 6 | Mike Ahern Building | 12 First Avenue
PO Box 362 | Maroochydore QLD 4558
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Website: www.ehp.qld.gov.au

This email and any files transmitted with it are confidential and intended solely for the use of the individual or entity to whom they are addressed.

From: Sale Ben
Sent: Wednesday, 27 March 2013 2:03 PM
To: Garner Rod
Subject: FW: Nth Bribie Island

Any recent media articles on Bribie Island erosion that you are aware of ?

Ben Sale
A/Regional Manager, Environmental Services (East)
Environmental Services and Regulation
Southern Region
Ph: 07 5459 6136 | **Fax:** 07 5459 6190 | **M:** Such Personal Information
Department of Environment and Heritage Protection
P.O Box 362, Maroochydore, QLD 4558

From: Prenzler Paul
Sent: Wednesday, 27 March 2013 1:52 PM
To: Sale Ben
Subject: Nth Bribie Island

Ben

Can you send Sel and I any of the recent media articles. We'll use this as the basis for a new BN getting the Min to reaffirm the position adopted by the previous Government.

Sel said he'd send you a copy of his updated report

Paul Prenzler
Principal Coastal Engineer
Environmental Services and Regulation - Southern Region

Ph: (07) 3339 5824 **Mob:** Sch 4 - Personal Information

Level 8, 400 George Street, Brisbane
GPO Box 2454 Brisbane Q 4001

RTI DL Release

**ENVIRONMENTAL PROTECTION AGENCY
DIRECTOR-GENERAL'S GENERAL BRIEFING NOTE**

TITLE: Northern Bribie Island Erosion and Ocean Breakthrough

Date: 10 March 2007

1. RECOMMENDATION

- That the Director-General:
 - **Note** the requirement to undertake foredune reconstruction works on Bribie Island National Park as a precautionary measure to delay an ocean breakthrough at a critical point opposite Bells Creek and
 - **approve** funding expenditure of \$25,000 for this purpose.

2. ISSUES

- Repeated severe weather events since Christmas has caused up to 15m of erosion on eastern Bribie Island and a section of dune opposite Bells Creek has been severely eroded to the extent that an ocean breakthrough may occur here if further severe weather is experienced.
- EPA officers have investigated this area and finalised a report which describes coastal processes and recommends an agreed EPA position on the erosion issue (Attachment 1).
- Erosion processes on Bribie Island are natural events and the EPA does not generally support any interference with these processes despite the widespread damage to dunes and vegetation and public criticism.
- Formation of a new entrance to Pumicestone Passage at this location may have significant adverse impacts on the adjacent communities of Golden Beach and Caloundra on the western side of the Passage and it would be prudent for EPA to take action now to delay the breakthrough until Caloundra City Council has undertaken a detailed risk assessment study of the impact of a breakthrough on these communities.
- No works need to be undertaken at other vulnerable locations on the island as it is considered that an ocean breakthrough further north would have minor impact on the community.
- Proposed works are expected to cost up to \$25,000 and will require an IPA development approval prior to commencement, which may take up to 4 weeks.

3. BACKGROUND

- A general briefing note on this subject was provided on 7 February 2008.

4. CONSULTATION

- Wolf Sievers, Director, QPWS
- David Robinson, Director Coastal Sciences, Environmental Sciences Division

.....
Tony Roberts
Executive Director

Date:

Executive Director's comment:

Director-General's comments

Memorandum



Queensland Government

Environmental Protection Agency

Incorporating the
Queensland Parks and Wildlife Service

Enquiries Sel Sultmann
Telephone (07) 3277 6805
Your reference -
Our reference BNE17014

10 March 2008

To: Wolf Sievers, Director Queensland Parks and Wildlife Service.

From: Sel Sultmann, Principal Planner

Through: John Lane, Director Integrated Planning

Subject: EPA Position on Bribie Island Erosion Management

Severe weather conditions since Christmas 2007 has caused extensive erosion on northern Bribie Island. A low area of the island opposite Bells Creek has suffered extensive wave overwash and is at risk of an ocean break-through if further severe conditions are experienced on a spring tide.

A report on the history of erosion on Bribie island and the and the risk of an over-wash event causing a new entrance to develop up to 5 kilometres south of the existing Caloundra Bar is attached.

Formation of a new entrance could cause profound changes to Pumicestone Passage and significantly affect the adjacent communities of Caloundra and Golden Beach. However, management of the issue need to consider the conservation values of Bribie Island National Park.

The attached report details an agreed EPA position on the issue. It also proposes immediate reconstruction of the foredune at the wash-over area to delay any ocean break-through until a Caloundra City Council risk analysis can be completed. This position is summarised below:

1. Present day erosion on Bribie Island National Park is considered a natural process and the Agency is committed to preserving the areas natural condition and dynamic processes.
2. Any threat to development on Golden Beach from natural coastal processes should be addressed by site-specific works to protect the development, rather than interference with coastal processes on Bribie Island and Pumicestone Passage.
3. Decisions and financial responsibility for any development protection works should lies with the development owner.
4. Where it can be clearly demonstrated that any ocean breakthrough will have a significant adverse impact on the socio-economic aspects of the Golden Beach/Caloundra community and which cannot be addressed by site specific works, then a broader solution may need to be investigated.

5. In the short-term while Caloundra City Council is completing a risk assessment study, it would be prudent to minimise the ocean breakthrough risk by undertaking minor dune rebuilding works where necessary to act as a wave over-wash barrier on Bribie Island opposite Bells Creek.

Your agreement is sought on:

1. The EPA position on Bribie island Erosion as described above which will form the basis for future discussions with Caloundra City Council and media responses;
2. Immediate commencement of foredune reconstruction works at the present wash-over area as described in the attached report; and
3. The attached draft Briefing note to the Director-General.

Sel Sultmann
Principal Planner

RTI DL Release

REPORT ON:

Implication of Coastal Erosion for Northern Bribie Island and an Agreed Position on Future Management

Introduction

In 1997 the EPA identified a significant emerging erosion issue on Bribie Island. A long-term trend of erosion of the eastern shoreline was confirmed and, as the island progressively narrowed over time, it was predicted that one or more ocean breakthroughs of the island would occur. It was further predicted that a new entrance would form at the ocean breakthrough and that the existing entrance (Caloundra Bar) would close up due to the relative hydraulic efficiencies of the entrances. A copy of this report is presented as Attachment 1.

At that time, 4 narrow points along the northern 5 kilometres of the island were identified as potential breakthrough points and these locations have been closely monitored (Figure 1).

A series of severe weather events in December 2007 to present has seriously erode Bribie Island again causing a loss of 10m to 15m of dune from sea erosion and widespread wave over-topping events.



Photo 1: Typical wave over-wash and death of tea-tree forest from salt and sand burial on low dunes at Bribie Island.



Photo 2: Typical dune erosion along high dunes

Erosion and wave over-wash at a site opposite Bells Creek has lowered and narrowed the dunes to the extent that now has the potential to break-through and form a new entrance.



Photo 3A: Wave overwash area at Site 2. Dune width here is 35m back to mangrove. Note wave foam up to 1m deep.



Photo 3B: Wave overwash area at Site 2. Dune width here is 35m back to mangrove.

Report

1. Background

An ocean break-through of Bribie Island is now tangibly real. The island is now less than 40m wide at 2 locations and both have experienced major wave overtopping events over the last 2 years. The local community is becoming increasingly aware of the reality of this emerging event and are concerned at the implications for development and infrastructure on the western side of the passage.

The local media regularly reports on the issue and information in the media confirms that there is a poor understanding of the real impacts of such an event and a strong belief that something has to be done to stop it and done soon. Caloundra City Council has formed the Pumicestone Passage Advisory Taskforce (PATT) to investigate the matter and report to Council. PATT includes 2 local Members of Parliament and the Deputy Mayor, and 2 EPA officer amongst other stakeholders. However, PATT will be dissolved with the upcoming Council amalgamations.

The objective of this report is to present up to date information on the issue and to formalise a whole of Agency position on the issue.

2. Current status of erosion

Annual sand loss has been estimated to be between 30,000 to 144,000 cubic metres per year along the northern 5 kilometres, which has narrowed by up to 100m since 1948 (see Figure 3). The island is not a uniform width and 4 narrow areas have been

identified which, as erosion continues, will be the locations of ocean break-throughs. Progression of erosion at these 4 narrow areas over the last 50 years is shown in Figures 3, 4, 5 and 6. A graph of the erosion trends at all sites is presented as Figure 7.

The trend of island narrowing is clear and unequivocal and will not halt or reverse. A simple explanation of the erosion trend is that:

- it appears to be a long term process measured in the hundreds and perhaps thousands of years.
- northern Bribie Island is a transition point for the direction of longshore transport in the region and sand from here is lost to the north and south along the open coast, and also into Pumicestone Passage by tidal flow (Figure 8).
- there is no riverine or nearshore supply of sand to replenish this loss
- it is a wholly natural process
- it is unrelated to sand extraction from Moreton Bay or to the dredging of shipping channels.

3. Expected changes

Any ocean break-through across Bribie Island will form a new entrance to Pumicestone Passage and it is highly likely that it will become the dominant entrance due to greater hydraulic efficiency. The existing entrance may well close up as sand stored in the ebb tide delta moves onshore as tidal flows reduce with a second entrance. A longer term (20 to 50 years) scenario is for northern Bribie Island to break up into several islands and sand bar complexes, and for these to slowly migrate westward.

The most likely nearterm scenario as the coastline recedes is for a new entrance to form south of the Blue Hole (Scenario 1) or opposite Bells Creek (Scenario 2) and for the existing entrance to close up. These are briefly discussed below:

Scenario 1: (south of the Blue Hole)

At this location any new entrance will be located just south of the most southerly recorded migration of the existing entrance (Figure 1). The area in Pumicestone passage is predominantly sand banks which are regularly reworked by tidal channel migration and strong tidal flows. The western foreshore is 1.2km to the west, has clean sandy beaches and is separated from the possible new entrance by 800m of shallow sand banks exposed at low tide. These will provide a high level of protection to the western foreshore from any oceanic wave penetration. Any new entrance is expected to slowly migrate northward once formed. With an entrance at this location the character and amenity of northern Pumicestone passage will be maintained. Economic, social and recreational impact is rated as low to moderate.

Scenario 2: (opposite Bells Creek)

At this location any new entrance would be immediately opposite Bells Creek (Figure 1) which is the southern limit of urban development on the western foreshore. The passage here is a low energy environment comprising muddy to sandy sediments with mangrove dominating the foreshore and intertidal islands. The western foreshore is generally very low, being typically 0.5m to 1.0m HAT. The western foreshore is narrow sandy beaches with muddy intertidal areas, and with mangrove frequency increasing to the south. Formation of a new entrance at this location is likely to cause a

significant reworking of the existing mangrove landforms, increased tidal flows, development of new channels and an increase in tide height locally which may impacts on the adjacent low lying coast. There may also be significant landform changes to the most northern end of the passage as the existing entrance closes over and tidal flows are significantly reduced. This may well result in an increase in muddy sediment deposition and mangrove colonisation along northern Golden and Bulcock beaches.

4. Management Options

Provided below are a range of management options for the erosion on Bribie Island. These are presented as **technical solutions only** and are dealt with superficially to give a first pass view of the scale and cost of management.

(i) Do Nothing

This option is consistent with the EPA's view that natural processes in National Parks continue uninterrupted, and recognises that the widespread dune erosion and destruction of vegetation is part of the process of sand island morphological change over time. This is not perceived by the EPA as an "environmental loss" or a destructive process.

(ii) Minimise human activity which may accelerate breakthrough processes.

Human activity including pedestrian impact, camping, and 4WD use in vulnerable areas can destroy vegetation, lower dune level and trigger wind erosion. These impacts can then accelerate wave over-wash and ocean breakthrough processes. QPWS has recognised this and has previously taken action including closure of the area to vehicle traffic. Further works including pedestrian control fencing and signage may be needed if human impact becomes a problem. Cost of such works is probably less than \$5,000/year and installed only as required.

(iii) Delay any ocean break-through by constructing wave over-wash barriers at vulnerable locations.

The first stage of an ocean break-through and development of a new entrance is wave overtopping of the dunes with wave over-wash flowing across the island into Pumicestone Passage. Wave over-wash can be prevented by reconstructing a dune ridge from locally derived sand and revegetation the area. Required sand volumes are up to 500 cubic metres and an indicative construction and revegetation cost is \$20,000. Technical details of this are presented in Attachment A.

(iv) Prevent breakthrough at locations south of Lamerough Canal by constructing significant dunal barriers.

This option recognises that the formation of a new entrance north of Lamerough Canal would be "business as usual" in terms of geomorphological, social and economic changes, but south of Lamerough Canal, the adverse impacts could be significant. Constructing a dunal barrier at the narrow points would effectively widen the island and delay any breakthrough for 10 to 20 years. Required sand volumes are in the order of 3000 - 6000 cubic metres and an indicative construction and revegetation cost of up to \$100,000

(v) Halt erosion on northern Bribie Island and rebuild the dunes on the eastern beach by sand pumping

The long term rate of sand loss from this area has been variously estimated at between 50,000 to 144,000 cubic meters per year. A beach nourishment campaign to replace 10 years of sand loss would cost in the order of \$5M to \$15M and require an annual provision of \$0.5M to \$1.5M to replace lost sand.

(vi) Halt erosion on Bribie Island by construction of hard protection works on the eastern beach.

Hard protection works such as rock walls would be required over some 4km of eastern Bribie Island to stop shoreline recession and would cost an estimated \$20M.

Construction of protection works only at the narrow points would not be a successful.

5. EPA interests and policy position

Bribie Island National Park was gazetted under the Nature Conservation Act and is managed to –

- (a) *As the cardinal principle*, provide, to the greatest possible extent, for the permanent preservation of the area's natural condition and the protection of the area's cultural resources and values; and
- (b) present the area's cultural and natural resources, and their values; and
- (c) ensure that the only use of the area is nature based and ecologically sustainable.

Specifically, Principle 2 of the document "Master Plan for Queensland's Park Systems" provides:

as far as practicable and unless specifically decided otherwise in relation to particular areas, conservation will aim for the maintenance of the dynamic landscape and vegetation system of an area in its "natural state", which might be as it was when acquired or as it was before the influence of European settlement (recognising the changes through time and space in natural systems).

Principal 5 of this document also provides that Parks will be managed in the context of surrounding landscapes with consideration of local community needs and aspirations. To uphold this principle, QPWS aims to ensure that issues and problems between Parks and neighbouring properties are considered in park management.

With respect to the erosion on Bribie Island, EPA should view this as an entirely natural process and allow such processes to continue, irrespective that some in the community may view this as massive destruction of the natural environment. Similarly, managing such natural processes to avoid impact on the developed western foreshore of Golden Beach, or to maintain the status quo in the passage, should not be considered a responsibility of the EPA.

The EPA may need to acknowledge that where the scale or extent of any changes on Bribie Island/Pumicestone Passage will have a significant adverse impact on the adjacent community, and where this cannot be dealt with by a site specific management, a broader solution including the National Park need to be investigated as a last resort.

6. North Bribie Island Erosion Issue – Agreed Agency Position

The EPA adopts the following position for managing erosion on Bribie Island.

- (i) Present day erosion on Bribie Island National Park is considered a natural process and the Agency is committed to preserving the areas natural condition and dynamic processes.
- (ii) Any threat to development on Golden Beach from natural coastal processes should be addressed by site-specific works to protect the development, rather than interference with coastal processes on Bribie Island and Pumicestone Passage.
- (iii) Decisions and financial responsibility for any development protection works should lie with the development owner.
- (iv) Where it is clearly demonstrated that any ocean breakthrough will have a significant adverse impact on the socio-economic aspects of the Golden Beach/Caloundra community and which cannot be addressed by site specific works, then a broader solution may need to be investigated.
- (v) In the short-term while Caloundra City Council is completing a risk assessment study, it would be prudent to minimise the ocean breakthrough risk by undertaking minor dune rebuilding works where necessary to act as a wave over-wash barrier on Bribie Island opposite Bells Creek (see Figure 1 and Attachment A).

The above position is consistent with the State Coastal Management Plan – Queensland Coastal Policy and the QPWS document “Master Plan for Queensland’s Park Systems”. Moreton Bay and Pumicestone Passage are within the Moreton Bay Marine Park. Consideration would need to be given to the requirements of the Moreton Bay Marine Park Zoning Plan for any works or activities in the Marine Park.

Recommended Actions

1. The EPA adopt the above position for managing erosion on Bribie Island
2. The foredune at the over-wash area on Bribie Island opposite Bells Creek be reconstructed as soon as possible to form a wave over-wash barrier and delay any possible ocean break-through as per Attachment A.
3. QPWS monitor wave over-wash areas and take action to prevent damage by pedestrian or recreational activities.
4. EPA continue to support the Pumicestone Passage Advisory Taskforce as the primary entity progressing a management strategies for coastline change in Pumicestone Passage and public education and awareness of the issue.

Sel Sultmann
Principal Planner
Strategy and Policy Division

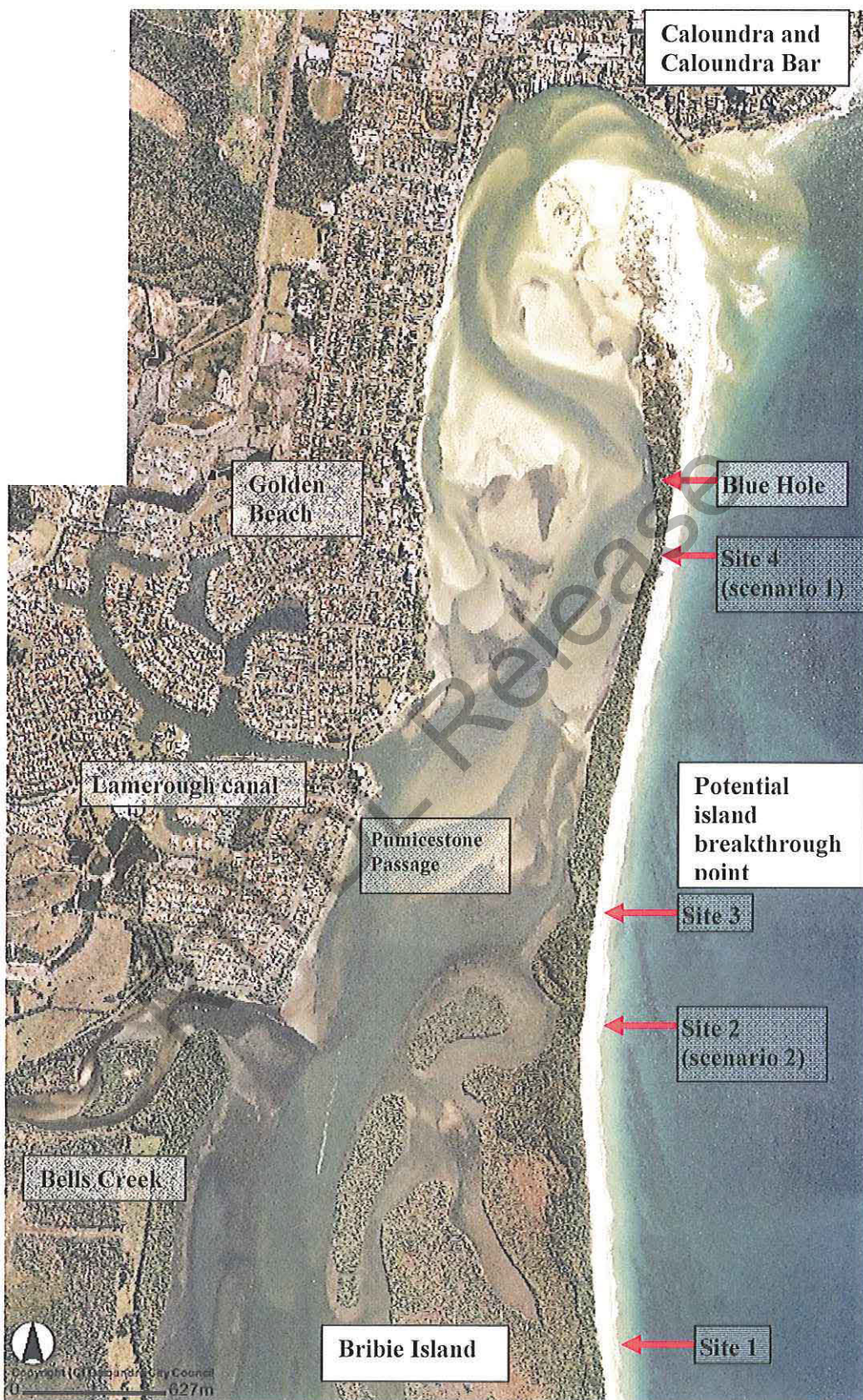
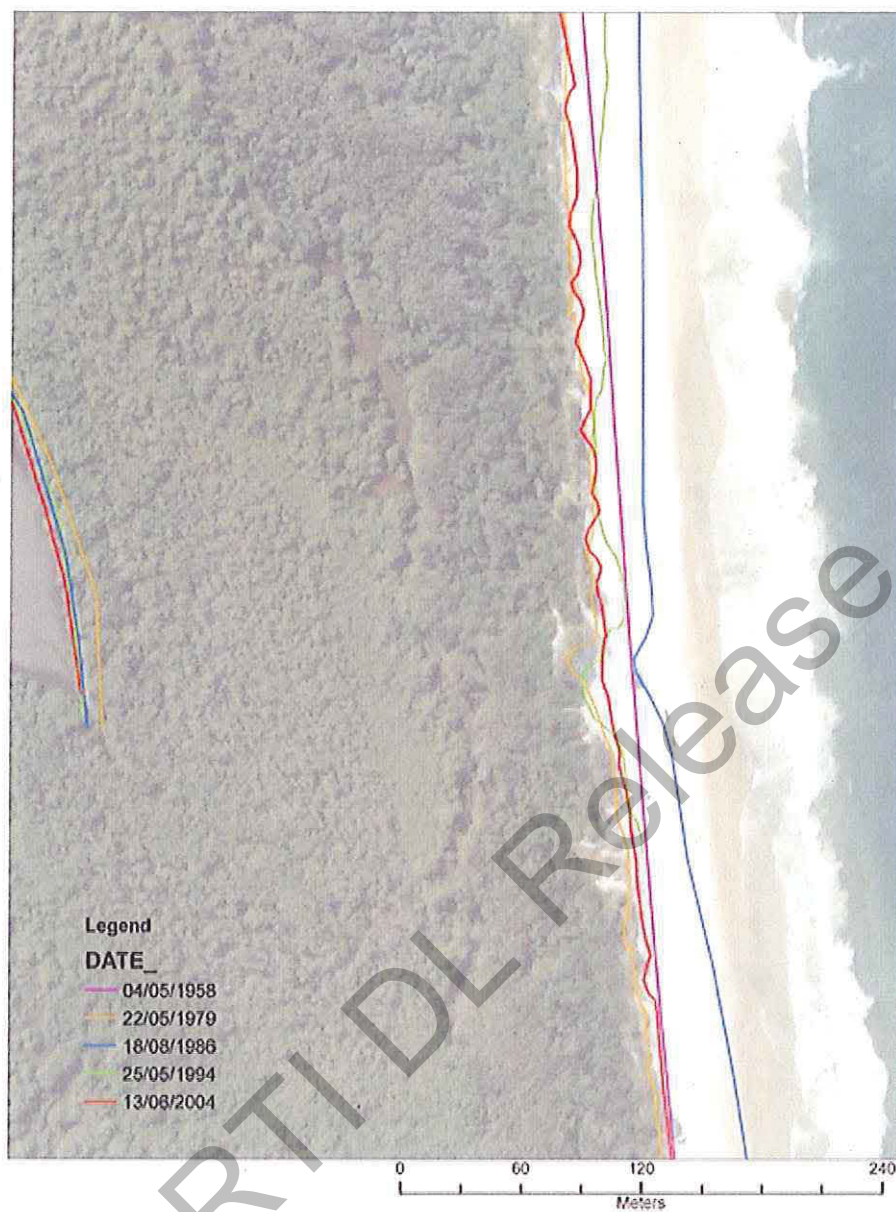


Figure 1: Location Plan -Northern Bribie Island, Caloundra



Figure 2: Comparison of Bribie Island size in 1948 and 2007 to demonstrate island narrowing by erosion.



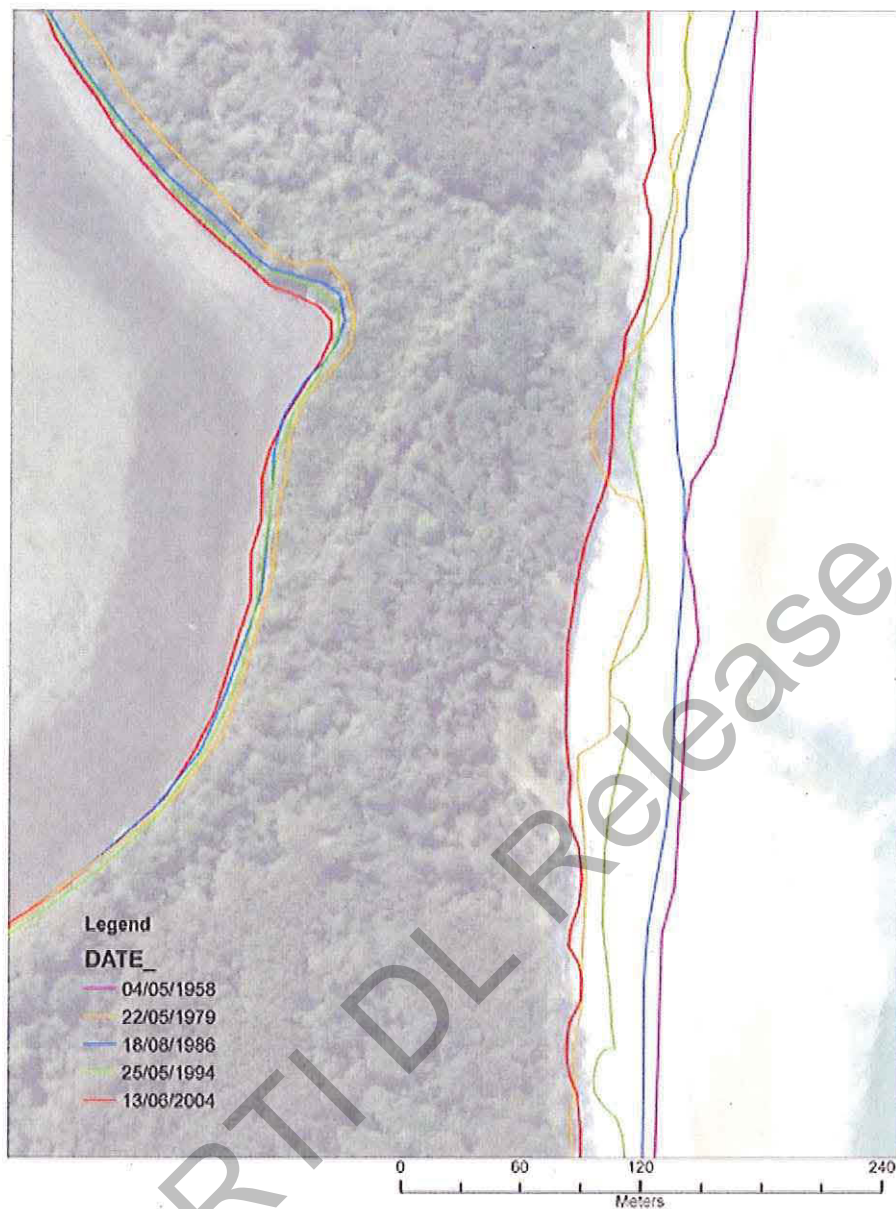
Data Source: Environmental Protection Agency

Produced: June 2006

Site: North Brible Island - Site 1



Figure 3: Shoreline position changes at Site 1



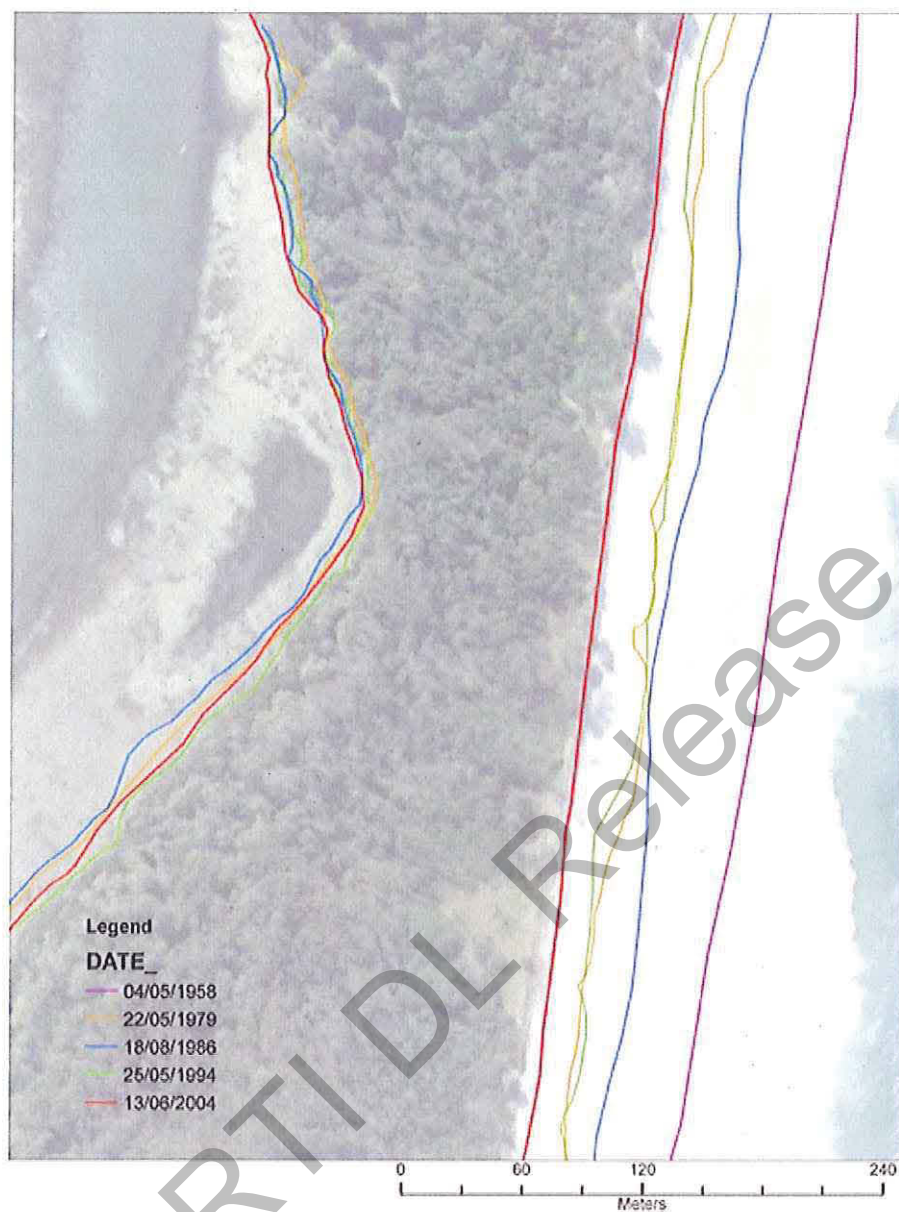
Data Source: Environmental Protection Agency

Produced: June 2006

Site: North Brule Island - Site 2



Figure 4: Shoreline position changes at Site 2



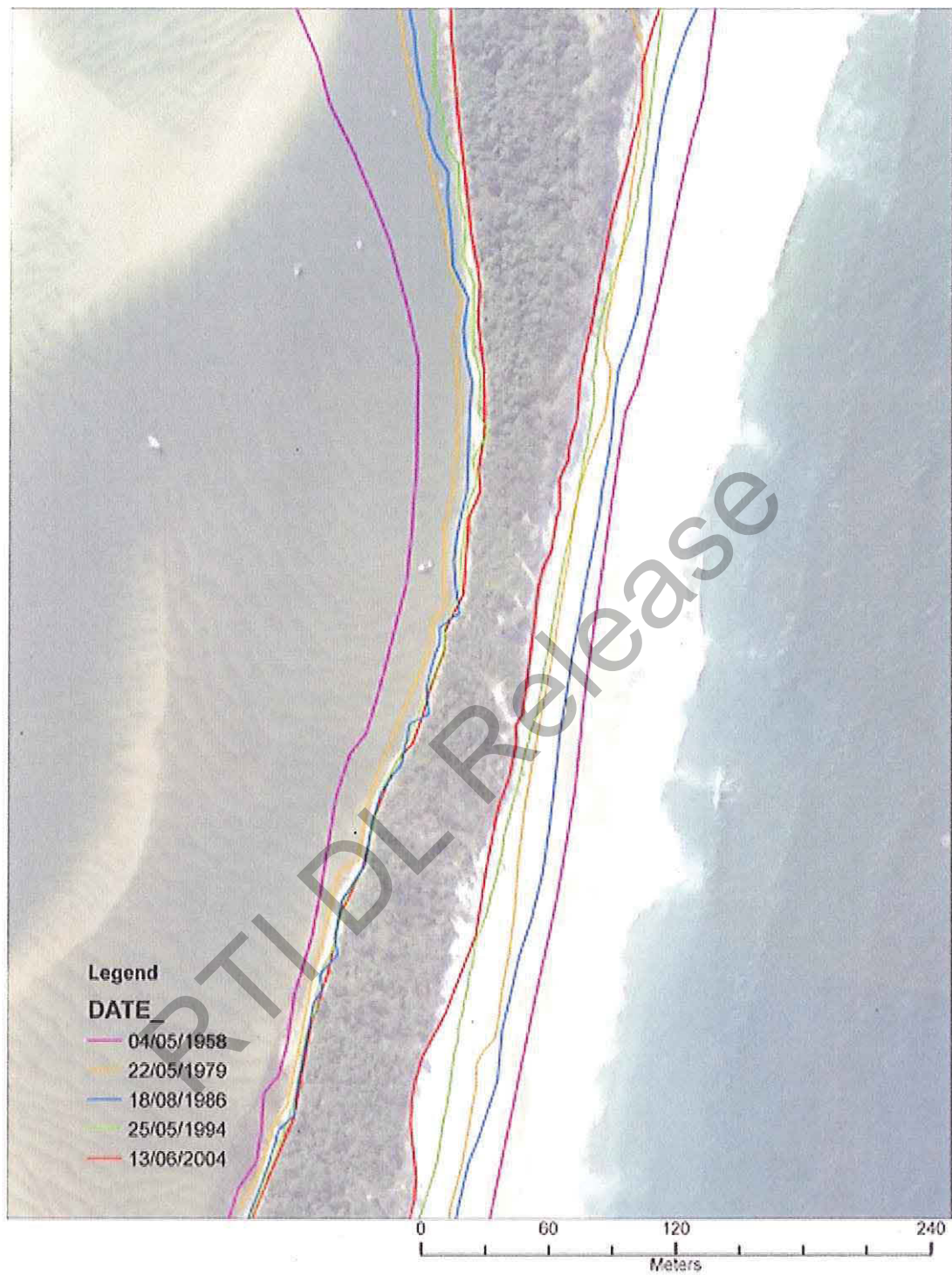
Data Source: Environmental Protection Agency

Produced: June 2006

Site: North Bribie Island - Site 3



Figure 5: Shoreline position changes at Site 3



Data Source: Environmental Protection Agency

Produced: June 2006

Site: North Bribie Island - Site 4



Figure 6: Shoreline position changes at Site 4

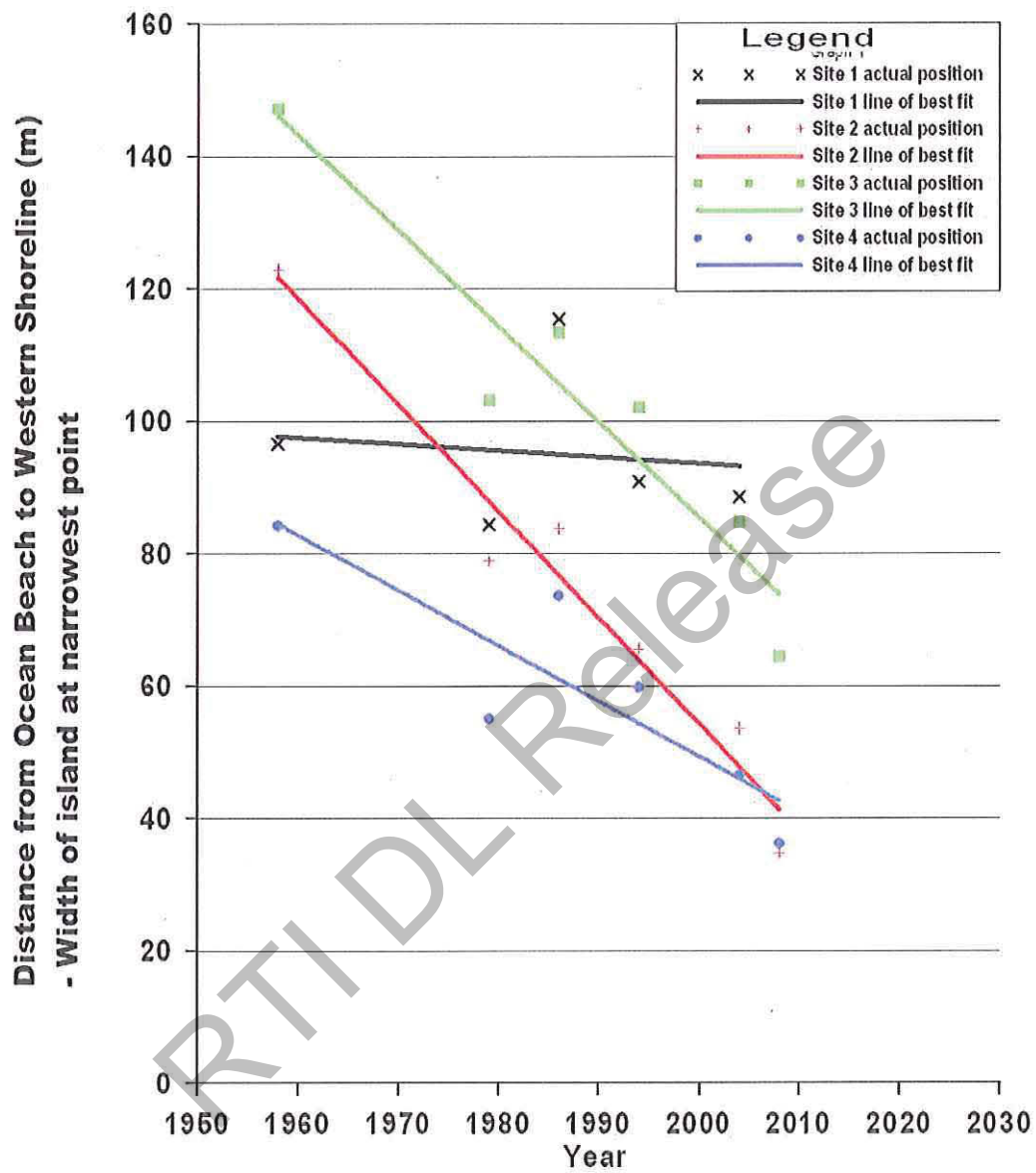


Figure 7: Shoreline erosion trends at the 4 narrow areas

Attachment A

Proposed dune reconstruction works – Site 2 northern Bribie Island

Reconstruction of the foredune at Site 2 is proposed to act as a wave over-wash barrier during future storm events (refer Figure 1). This should delay any ocean break-through from wash-over processes, but the site will still be vulnerable to any significant storm events where there is a substantial erosion cut in the order of 10-20m.

It is proposed to remove sand from the high dune to the immediate south of the wash-over area by excavating sand from the toe of the dune (see photo 5). Slumping of the exposed scarp face is expected to retreat the dune by up to 1.5m. Details of the proposed works are provided in Figure 8 and typical cross-sections and a long-section is shown in Figures 9 and 10.

Costs

Estimated costs to reconstruct the dune and revegetate the area is estimated at up to \$20,000.

Approval Requirements

An Integrated Development Act 1097 development permit is required before works can commence. This may take up to 4 weeks.

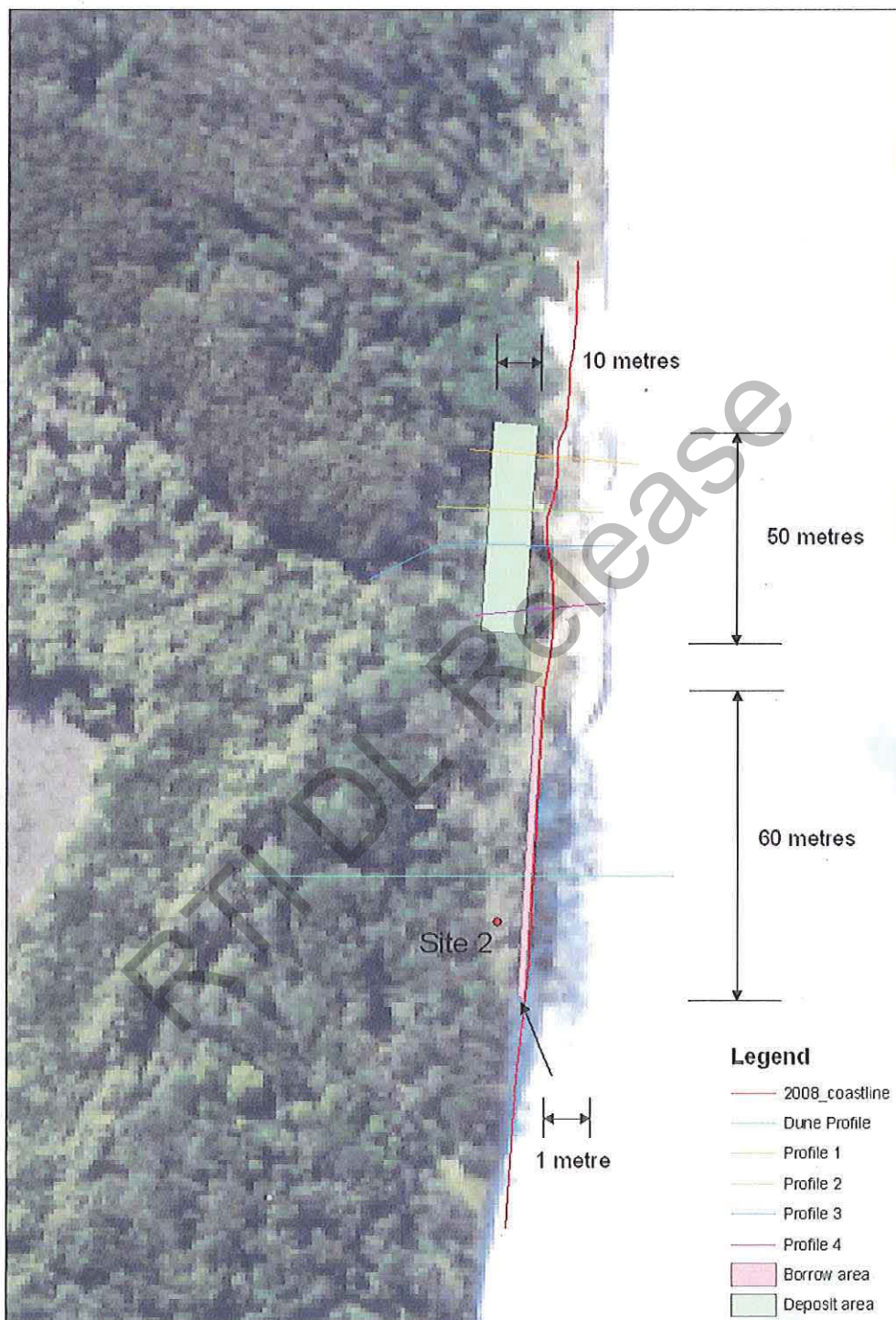


Figure 8: Plan view of the foredune reconstruction site at Site 2.



Photo 5: Sand borrow area to the immediate south of wash-over.

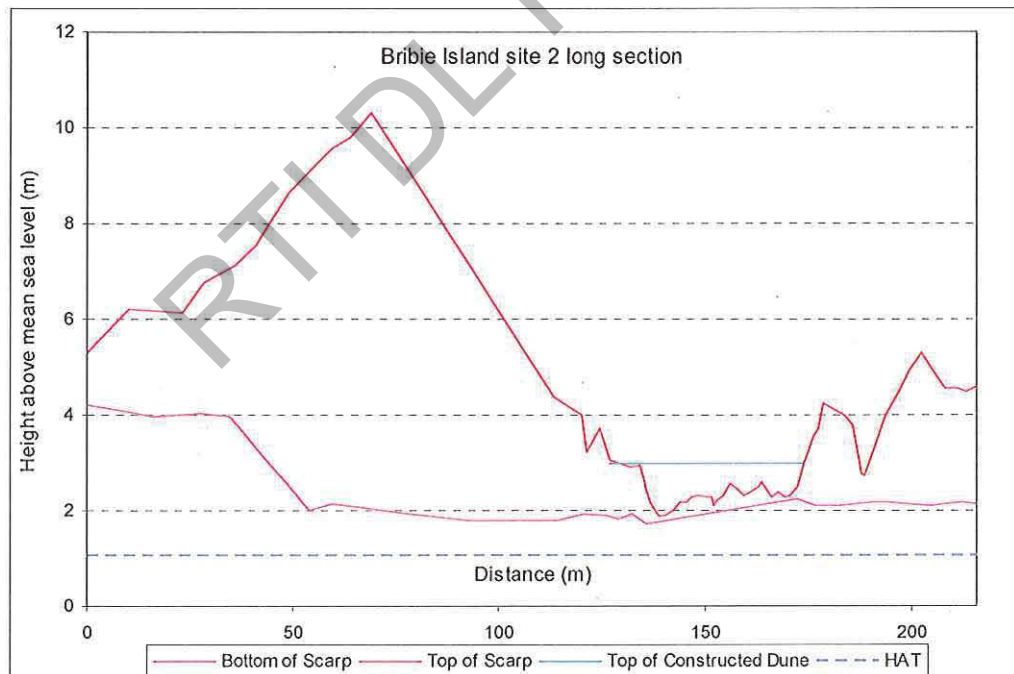


Figure 9. Dune cross-sections at Site 2

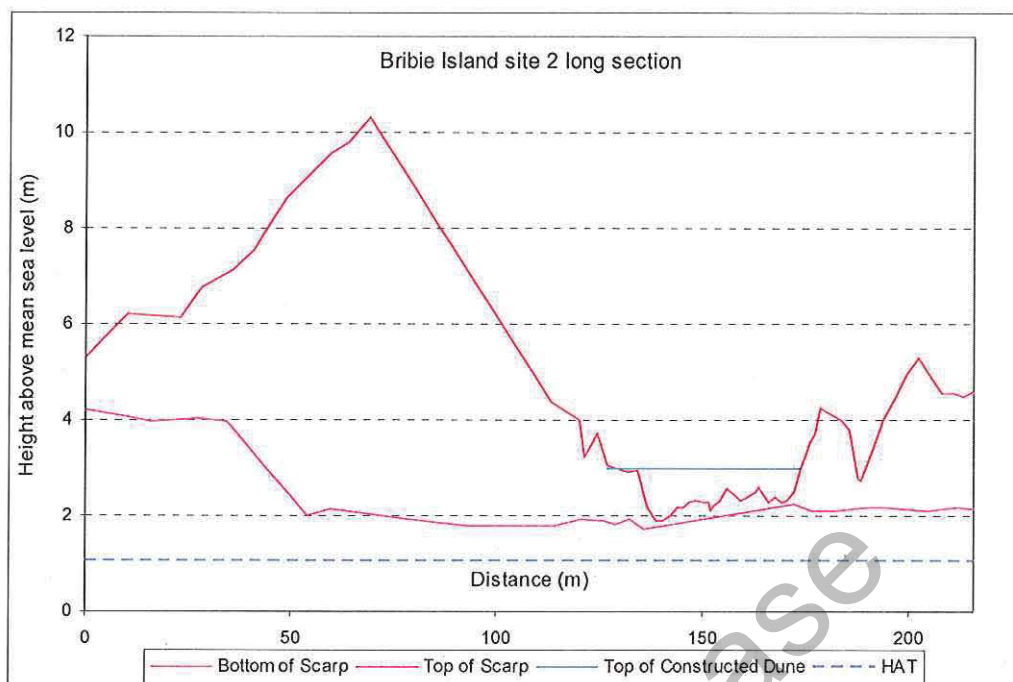


Figure 10: Dune long-section at Site 2.

From: Sultmann Sel [Sel.Sultmann@ehp.qld.gov.au]
Sent: Thursday, 28 March 2013 9:58 AM
To: Sale Ben
CC: Prenzler Paul
Subject: FW: Bribie Island erosion Monitoring March 2013
Attachments: Bribie Erosion Comparison Data_Jul 2012_Mar2013.xls

Hi Ben

Following on from my e-mail yesterday I'll refresh previous plots of shoreline recession on Bribie including the new council data. 27m of erosion is of significant concern. Given the ongoing erosion I believe a brief to the DG is critical as the breakthrough risk is ramping up

Sel Sultmann
Principal Coastal Scientist
Environment Policy and Planning
Dept of Environment and Heritage Protection

Ph: (07) 33305768
E-mail: sel.sultmann@ehp.qld.gov.au
GPO Box 2454 BRISBANE, QLD, 4001
Level 9 400 George St Brisbane

www.ehp.qld.gov.au.

From: Denise Lindon [mailto:denise.lindon@sunshinecoast.qld.gov.au]
Sent: Thursday, 28 March 2013 9:28 AM
To: Chris Allan; Denis Shaw
Cc: Sultmann Sel; Gordon Agnew
Subject: Bribie Island erosion Monitoring March 2013

Hi All,

The team visited the erosion monitoring sites on Bribie Island again yesterday. We are still seeing significant dune losses over there. Site 3 has suffered the most in the last month with evidence of wash overs occurring. Please see the attached data.

Regards,
Denise Lindon | *Team Leader Waterways Operations*
Waterways Operations | Environmental Operations
Infrastructure Services | Sunshine Coast Regional Council

Phone: 07 5499 5119
Mobile: 07 5499 5119
Email: denise.lindon@sunshinecoast.qld.gov.au
Website: www.sunshinecoast.qld.gov.au
Mail: Locked Bag 72 Sunshine Coast Mail Centre Qld 4560

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RTI DL Release

GPS Position Information			Distance from Marker Peg to Dune Edge (m)			Total Loss of Dune since July 2012 (m)
	Easting	Northing	Jul-12	Feb-13	Mar-13	
Site BEM-01	26.824363	153.131815	15.60	6.80	2.80	12.80
Site BEM-02A	26.83846	153.128922	30.55	19.80	11.10	19.45
Site BEM-03A	26.84119	153.12859	41.22	30.70	14.30	26.92
Site BEM-04	26.854845	153.129301	18.70	3.88	0.65	18.05

RTI DL Release

From: Denise Lindon [denise.lindon@sunshinecoast.qld.gov.au]
Sent: Thursday, 28 March 2013 10:17 AM
To: Sultmann Sel
Subject: RE: Bribie Island erosion Monitoring March 2013
Attachments: BEM01 (3) 27 3 13.JPG; BEM02A (3) 27 3 13.JPG; BEM03A (3) 27 3 13.JPG

Hi Sel,

Please find attached photos. The first three in this email are the official photos taken at the marker but the following photos in the next email(s) are of the actual washover and sand being deposited in the mangroves on the mainland side of the island.

Regards,
Denise Lindon | *Team Leader Waterways Operations*
Waterways Operations | Environmental Operations
Infrastructure Services | Sunshine Coast Regional Council

Phone: 07 5499 5119
Mobile: Section 4 - Personal Information
Email: denise.lindon@sunshinecoast.qld.gov.au
Website: www.sunshinecoast.qld.gov.au
Mail: Locked Bag 72 Sunshine Coast Mail Centre Qld 4560

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From: Sultmann Sel [mailto:Sel.Sultmann@ehp.qld.gov.au]
Sent: Thursday, 28 March 2013 9:53 AM
To: Denise Lindon
Subject: RE: Bribie Island erosion Monitoring March 2013

Thanks Denise, very interesting data. Did you have any photos of site 3?

Sel Sultmann
Principal Coastal Scientist
Environment Policy and Planning
Dept of Environment and Heritage Protection

Ph: (07) 33305768
E-mail: sel.sultmann@ehp.qld.gov.au
GPO Box 2454 BRISBANE, QLD, 4001
Level 9 400 George St Brisbane

www.ehp.qld.gov.au.

From: Denise Lindon [mailto:denise.lindon@sunshinecoast.qld.gov.au]
Sent: Thursday, 28 March 2013 9:28 AM
To: Chris Allan; Denis Shaw
Cc: Sultmann Sel; Gordon Agnew
Subject: Bribie Island erosion Monitoring March 2013

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Regards,

Denise Lindon | *Team Leader Waterways Operations*
Waterways Operations | Environmental Operations
Infrastructure Services | Sunshine Coast Regional Council

Phone: 07 5499 5119

Mobile: Section 4 - Personal Information

Email: denise.lindon@sunshinecoast.qld.gov.au

Website: www.sunshinecoast.qld.gov.au

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Section: Penetration Informa



From: Denise Lindon [denise.lindon@sunshinecoast.qld.gov.au]
Sent: Thursday, 28 March 2013 10:18 AM
To: Sultmann Sel
Subject: Bribie Island erosion - Iconic shots
Attachments: DSCF3590.JPG; DSCF3693.JPG; DSCF3700.JPG; DSCF3702.JPG; DSCF3707.JPG

Just a couple more interesting shots for you ☺ First of the lighthouse at the northern site and then at the gun tarot at site 4.

Regards,
Denise Lindon | *Team Leader Waterways Operations*
Waterways Operations | Environmental Operations
Infrastructure Services | Sunshine Coast Regional Council

Phone: 07 5499 5119
Mobile: Section 4 - Personal Information
Email: denise.lindon@sunshinecoast.qld.gov.au
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Section 4 - Personal Information







Section 4- Personal Information

From: Sale Ben [Ben.Sale@ehp.qld.gov.au]

Sent: Thursday, 28 March 2013 3:22 PM

To: Bell Ewan

CC: Hertslet Bryce; Sultmann Sel

Subject: RE: Bribie Island Break through possible

Attachments: RE: Nth Bribie Island; FW: Bribie visit; FW: Bribie Island erosion Monitoring March 2013

Ewan

I've been discussing with Sel the need to brief this up.

In recent discussions with Chris Allan Manager (Environment Operations), SCRC – it was raised that the local councillor (Tim Dwyer) was coming under increasing pressure from the community to do something to prevent a breakthrough. Options to resolve the issue included geo tex walls on Bribie Island or rainbowing of dredged and from spitfire channel on to the beach Bribie – v. expensive. Mark Mcardle is also very involved within the community on this issue.

Sel has advised any dredging program that might delay the inevitably breakthrough would involve capital dredging at the cost of millions of dollars and would require in the order of 100 000m3 metres per lineal metre of a 2km stretch of beach.

I've spoken to Chris today who has advised that while council have spoken to Port Of Brisbane about costings for sand it was more to facilitate nourishment of Maroochy to Alex stretch if the proposed Maroochy estuary dredge program doesn't work. He did note however that the information could be used should a solution to a break through at Bribie occur.

Chris advised that while nourishment had been discussed by Tim Dwyer he believed council's position remained the same as when the Pummicestone Passage Taskforce last met – that Bribie Island as a National Park is a State responsibility to manage. He did note that it might be prudent to pull the report completed for the task force to see if any trigger points were recommended for recommencing the taskforce group.

Sel – if you could put together a bare bone DGBN based on your corporate knowledge for Ewan (to finalise while I am on leave) so that we can put this issue on the DG's radar.

Thanks

Ben

Ben Sale

Manager (Sunshine Coast & Gympie)

Environmental Services & Regulation | Southern Region

Ph: 07 5459 6136 | **Fax:** 07 5459 6190 | **M:** Sch 4 - Personal Information

Department of Environment and Heritage Protection

P.O Box 362, Maroochydore, QLD 4558

From: Sultmann Sel [Sel.Sultmann@ehp.qld.gov.au]
Sent: Tuesday, 2 April 2013 2:00 PM
To: King Jeremy
Subject: FW: Bribie Island erosion Monitoring March 2013
Attachments: Bribie Erosion Comparison Data_Jul 2012_Mar2013.xls

Sel Sultmann
Principal Coastal Scientist
Environment Policy and Planning
Dept of Environment and Heritage Protection

Ph: (07) 33305768
E-mail: sel.sultmann@ehp.qld.gov.au
GPO Box 2454 BRISBANE, QLD, 4001
Level 9 400 George St Brisbane

www.ehp.qld.gov.au.

From: Denise Lindon [mailto:denise.lindon@sunshinecoast.qld.gov.au]
Sent: Thursday, 28 March 2013 9:28 AM
To: Chris Allan; Denis Shaw
Cc: Sultmann Sel; Gordon Agnew
Subject: Bribie Island erosion Monitoring March 2013

Hi All,

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Regards,
Denise Lindon | *Team Leader Waterways Operations*
Waterways Operations | Environmental Operations
Infrastructure Services | Sunshine Coast Regional Council

Phone: 07 5499 5119
Mobile: [Redacted Personal Information]
Email: denise.lindon@sunshinecoast.qld.gov.au
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Site BEM-04	26.854845	153.129301	18.70	3.88	0.65	18.05

RTI DL Release

From: Harden John
Sent: Wednesday, 8 May 2013 8:18 AM
To: Prenzler Paul
Cc: Sultmann Sel; Evans Mark; Furnell Teresa
Subject: FW: PHOTOS: Woorim beach, Boyd St Erosion Control Zone, before and after council clean up

Paul, a fairly good example of the effects on a large storm event, pre and post

I understand that a lot of the dune vegetation was cleared for safety reasons, damaged or dead, over the weeks after the storm event.

It appears that council have mulched the highly susceptible and exposed frontal dune.

This action reinforces the need for updated guidance and direction in our technical notes for councils:

http://www.ehp.qld.gov.au/coastal/ecology/beaches-dunes/beach_conservation.html

- | | |
|--|--|
| 1. V-03.1 Repair of <i>damaged dunes</i> | Library Link to V-03.1 |
| 2. V-03.6 Surface stabilising agents: <i>plant materials</i> | Library Link to V-03.6 |
| 3. V-04.1 Planting programs for dune stabilisation | Library Link to V04.1 |

John Harden
Manager (Moreton Bay)

From: SG 74 - Personal information
Sent: Wednesday, 8 May 2013 7:38 AM
To: Harden John
Subject: PHOTOS: Woorim beach, Boyd St Erosion Control Zone, before and after council clean up

Good morning John
If you haven't had the chance to visit Woorim recently, here's an example of the change of views from the beach over the past 2 months (after Oswald)
Absolutely devastating.
For your records
Kind regards



Before



After

From: King Jeremy [Jeremy.King@ehp.qld.gov.au]
Sent: Monday, 27 May 2013 7:58 AM
To: Sultmann Sel
Subject: Gold coast erosion

<http://www.couriermail.com.au/news/queensland/beaches-on-gold-and-sunshine-coast-cop-a-hammering-from-big-seas-and-windy-conditions/story-e6freoof-1226650892924>

Jeremy King

Principal GIS Analyst

Environmental Policy and Planning

Department of Environment and Heritage Protection

T: (07) 33305765 E: jeremy.king@ehp.qld.gov.au

RTI DL Release

From: King Jeremy [Jeremy.King@ehp.qld.gov.au]

Sent: Tuesday, 28 May 2013 8:32 AM

To: Sultmann Sel

Subject: gold coast erosion part 2

<http://www.couriermail.com.au/money/gold-coast-beachfront-property-owners-threaten-class-action-as-they-say-they-have-been-abandoned-to-the-sea/story-e6freqoo-1226651611854>

Jeremy King

Principal GIS Analyst

Environmental Policy and Planning

Department of Environment and Heritage Protection

T: (07) 33305765 E: jeremy.king@ehp.qld.gov.au

RTI DL Release

From: Allen Mark [Mark.Allen@ehp.qld.gov.au]
Sent: Tuesday, 28 May 2013 11:24 AM
To: Smyth Louise; Sultmann Sel; King Jeremy; Simmons Catie; Townsend Roslyn; Polzi Nicole
Subject: RE: gold coast erosion

Some other videos and media on recent erosion across Queensland – have saved in the land surrender folder for future reference. Good vid on erosion cutting into tourism market

<http://www.abc.net.au/news/2013-03-22/qld-beach-erosion-cuts-into-tourism/4589878>

New research predicts climate change will cause not only sea level rises, but bigger waves.

<http://www.abc.net.au/local/stories/2013/04/19/3741003.htm?site=farnorth>

<http://www.couriermail.com.au/news/queensland/beach-erosion-puts-off-tourists-from-top-queensland-holiday-spots-on-gold-and-sunshine-coasts/story-e6freoof-1226603741692>

http://www.goldcoast.com.au/article/2013/02/26/447754_gold-coast-news.html

Photos gallery

http://tools.goldcoast.com.au/photo-gallery/photo_gallery_popup_preview.php?category_id=43060&offset=0

http://www.goldcoast.com.au/article/2013/03/14/448648_gold-coast-news.html

Interesting public comment on the article above – copied below

Raven Posted On 07:08am Friday 15th March

Still haven't seen funding for the protection of the private beachfronts linked to public access, amenity and facility. Nearly half of the GC beachfronts have private beachfront development that restricts public access to the beaches and does not allow a promenade up the beach without being on the beach. Women and the elderly in particular are discriminated against by this. The A line was decided before climate change and is indefensible in the long term.

From: Smyth Louise
Sent: Tuesday, 28 May 2013 10:37 AM
To: Allen Mark
Subject: FW: gold coast erosion

Mark,

This is a good one to add to the Land Surrender paper. Pictures tell a thousand words....

Louise Smyth

Manager – Coastal Planning | Environmental Policy and Planning

T: (07) 3330 5764 | (ext: 25764) | E: louise.smyth@ehp.qld.gov.au

Department of Environment and Heritage Protection
Flr 10, 400 George Street Brisbane
PO Box 2454 Brisbane Q 4001
www.ehp.qld.gov.au

From: Sultmann Sel
Sent: Tuesday, 28 May 2013 10:13 AM
To: Lane John; Smyth Louise; Prenzler Paul
Cc: Pieter Filet; Andrew De Zilva
Subject: FW: gold coast erosion

FYI. Play the video for the helicopter shots of houses close to the edge. Still another month or so risk in this area from east coast lows (extra tropical cyclones) forming off the NSW coast and king tides continuing to erode these beaches. GCCC have been trucking large volumes of sand to Surfers Paradise to maintain a useable beach. Potentially huge implications for tourism/local economy if the erosion continues.

Interesting comparison to the Sunshine coast which has experienced similar erosion, but much of the development is setback behind wide dunal buffer zones - so only a life saving tower is an issue.

<http://www.couriermail.com.au/money/gold-coast-beachfront-property-owners-threaten-class-action-as-they-say-they-have-been-abandoned-to-the-sea/story-e6freqoo-1226651611854>

Sel Sultmann
Principal Coastal Scientist
Environment Policy and Planning
Dept of Environment and Heritage Protection

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E-mail: sel.sultmann@ehp.qld.gov.au
GPO Box 2454 BRISBANE, QLD, 4001
Level 9 400 George St Brisbane

www.ehp.qld.gov.au.

From: King Jeremy
Sent: Tuesday, 28 May 2013 8:33 AM
To: Sultmann Sel
Subject: gold coast erosion part 2

Jeremy King
Principal GIS Analyst
Environmental Policy and Planning
Department of Environment and Heritage Protection
T: (07) 33305765 E: jeremy.king@ehp.qld.gov.au

From: Sultmann Sel [Sel.Sultmann@ehp.qld.gov.au]
Sent: Thursday, 30 May 2013 10:18 AM
To: Todd Derek
Subject: FW: Gold coast erosion

Sel Sultmann
Principal Coastal Scientist
Environment Policy and Planning
Dept of Environment and Heritage Protection

Ph: (07) 33305768
E-mail: sel.sultmann@ehp.qld.gov.au
GPO Box 2454 BRISBANE, QLD, 4001
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www.ehp.qld.gov.au.

From: King Jeremy
Sent: Monday, 27 May 2013 7:59 AM
To: Sultmann Sel
Subject: Gold coast erosion

<http://www.couriermail.com.au/news/queensland/beaches-on-gold-and-sunshine-coast-cop-a-hammering-from-big-seas-and-windy-conditions/story-e6freoof-1226650892924>

Jeremy King
Principal GIS Analyst
Environmental Policy and Planning
Department of Environment and Heritage Protection
T: (07) 33305765 E: jeremy.king@ehp.qld.gov.au

Draft letter for Cape York/Gulf

Subject: Erosion prone area mapping for Queensland

Dear Sir

On 31 October 2011 the Department of Environment and Heritage Protection declared new erosion prone areas for the Queensland Coast pursuant to section 70 of the *Coastal Protection and Management Act 1995*. The department provides copies of the declared erosion prone areas on its web site and also provides indicative mapping of the erosion prone area footprint to assist in statutory planning and development assessment on the coast under current coastal policy (Coastal Protection State Planning Regulatory Provision). The draft State Planning Policy, which was recently released for public comment, also refers to erosion prone areas under the Natural Hazards State Interest.

This letter is to inform you that the indicative mapping of the erosion prone area footprint has now been updated with recently available aerial photography and digital elevation models of your region. For far north Queensland and the Gulf of Carpentaria mapping is only provided in the vicinity of existing communities. The footprint of the erosion prone for areas between communities will need to be as required for any proposed development. The indicative mapping also indicates the areas where the erosion prone area has not been determined.

I can also advise that from Cook Shire to the Northern Territory Border the Coastal Management District is the same footprint as the declared erosion prone area.

Mapping is available for viewing on the Department's web site. For the declared erosion prone areas (unchanged) the link is:
http://www.ehp.qld.gov.au/coastal/development/assessment/erosion_prone_areas.html

For the revised erosion prone area indicative footprint mapping the link is:
<http://www.ehp.qld.gov.au/coastal/management/maps/index.html>

The indicative mapping is also available for download as a GIS product from Queensland Government Information Service at:
<http://dds.information.qld.gov.au/DDS/Search.aspx> (hint: just use Option 2 – Type of data and input 'erosion prone area' as the search term).

If you require any further advice or assistance on this matter then please contact Mr Sel Sultmann on 33305768 or e-mail coastal.support@ehp.qld.gov.au.

John Lane

Draft letter for GCCC to Cairns regional council

Subject:Erosion prone area mapping for Queensland

Dear Sir

On 26 January 2011 the Department of Environment and Heritage Protection declared new erosion prone areas for the far north Queensland Coast pursuant to section 70 of the *Coastal Protection and Management Act 1995*. The department provides copies of the declared erosion prone areas on it web site and also provides indicative mapping of the erosion prone area footprint to assist in statutory planning and development assessment under current coastal policy (Coastal Protection State Planning Regulatory Provision). The draft State Planning Policy, which was recently released for public comment, also refers to erosion prone areas under the Natural Hazards State Interest.

This letter is to inform you that the indicative mapping of the erosion prone area footprint has now been update with recently available aerial photography and digital elevation models. For most areas change will be relatively small, but for some including Gold Coast City Council and Cairns Regional Council there have been significant improvements.

Mapping is available for viewing on the Departments web site. For the declared erosion prone areas (unchanged) the link is:
http://www.ehp.qld.gov.au/coastal/development/assessment/erosion_prone_areas.html

For the revised erosion prone area indicative footprint mapping the link is:
<http://www.ehp.qld.gov.au/coastal/management/maps/index.html>

The indicative mapping is also available for download as a GIS product from Queensland Government Information Service at:
<http://dds.information.qld.gov.au/DDS/Search.aspx> (hint: just use Option 2 – Type of data and input ‘erosion prone area’ as the search term).

If you require any further advice on this matter then please contact Mr Sel Sultmann on 33305768 or e-mail coastal.support@ehp.qld.gov.au.

John Lane

From: Sultmann Sel
Sent: Monday, 3 June 2013 3:43 PM
To: Lane John
Subject: FW: QGIS has been updated with the latest storm tide hazard and erosion prone area layers.

Hi John

Revised erosion prone area mapping has now been added to our web site and to QGIS. DG brief on this requires letters to all coastal LGAs to inform them of the change (see below). Im proposing to send the letters under your signature. Can you advise agreement with letter content and then I will get Sally to create all documents. There are 2 letters with slightly different text for FNQ and the rest of the state.

CTS No. 01250/13

**Department of Environment and Heritage Protection
 DIRECTOR-GENERAL BRIEFING NOTE**

TO: Director-General

SUBJECT: Release of updated indicative Erosion Prone Area mapping for Queensland

TIMEFRAME

- Action required in the short term so that revised maps can be provided with the release of single State planning policy by the Department of State Development, Infrastructure and F (date to be advised, but may be late March 2013).

RECOMMENDATION

It is recommended that the Director-General:

- agree** to the release of revised indicative mapping that spatially describes the statutory Erosion Prone Area;
- note** that the declared Erosion Prone Area is not being changed but the new indicative map provide a more accurate depiction of the statutory area;
- note** that letters to all coastal local governments will be forwarded advising of the revised mapping and that it will be available on the department's website, with the data available from the Government Information Service;
- note** that new coastal hazard mapping for Torres Strait Islands will be released within 3 months following consultation with the Torres Strait Regional Authority.

Approved	Not Approved
Further information required	
DG. <i>[Signature]</i>	
Dated <i>18</i> / <i>6</i> / <i>13</i>	

Sel Sultmann
Principal Coastal Scientist
Environment Policy and Planning
Dept of Environment and Heritage Protection

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Level 9 400 George St Brisbane

www.ehp.qld.gov.au.

From: King Jeremy
Sent: Tuesday, 28 May 2013 7:45 AM
To: Sultmann Sel; Lane John; Smyth Louise; Jackson Evan; Honeman Troy; Todd Derek
Subject: QGIS has been updated with the latest storm tide hazard and erosion prone area layers.

Erosion prone area component 2 of 3 sea level rise area	kingje Approved Editor	2013-05-27	Unrestricted
Erosion prone area component 1 of 3 40 metres on highest astronomical tide	kingje Approved Editor	2013-05-27	Unrestricted
Erosion prone area component 3 of 3 calculated erosion distance	kingje Approved Editor	2013-05-27	Unrestricted
Storm tide medium hazard	kingje Approved Editor	2013-05-27	Unrestricted
Erosion prone area all components	kingje Approved Editor	2013-05-27	Unrestricted
Storm tide high hazard	kingje Approved Editor	2013-05-27	Unrestricted

Jeremy King
Principal GIS Analyst
Environmental Policy and Planning
Department of Environment and Heritage Protection
T: (07) 33305765 E: jeremy.king@ehp.qld.gov.au

From: Denis Shaw [Denis.Shaw@sunshinecoast.qld.gov.au]
Sent: Thursday, 6 June 2013 11:25 AM
To: Michael Anderson
CC: Sultmann Sel
Subject: RE: Bribie Island possible breakthrough
Attachments: Bribie Erosion Comparison Data_Jul 2012_Mar2013.xls

Hi Mike,
I saw the story and the monitoring confirms significant erosion along the northern part of Bribie Island. Our reply to all enquires is that Council will continue to monitor the rate of erosion and continue to work with the State Gov't in obtaining short and long term outcomes.
regards

Denis Shaw

Coast and Canals Manager
ph 54758855 mob [REDACTED]

From: Michael Anderson
Sent: Thursday, 6 June 2013 8:32 AM
To: Denis Shaw
Cc: Chris Allan
Subject: FW: Bribie Island possible breakthrough

Denis,

Your thoughts on this data, given we should be heading into a period of sand deposition.

I would like to give Cr Dwyer a heads up this morning in the current info.

Regards

From: Gordon Agnew
Sent: Thursday, 6 June 2013 6:57 AM
To: Denise Lindon
Cc: Josh Walton; Kane Ransom; Michael Anderson
Subject: Bribie Island possible breakthrough

Hi Denise, please find attached Bribie Island erosion monitoring data. Channel 7 "national" news had a brief story on the news this morning stating that Bribie Island was about to break through creating another island and potentially threatening properties along Golden Beach. It's quite likely that we'll get some enquiries today regarding this issue. I've attached the relevant monitoring data for your referral.

Cheers,

Gordon Agnew
Waterways Tech. Officer
Sunshine Coast Council
gordon.agnew@sunshinecoast.qld.gov.au
ph. 5499 5121 / mob. [REDACTED]

**Sunshine Coast
Council**



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RTI DL Release

GPS Position Information			Distance from Marker Peg to Dune Edge (m)				Total Loss of Dune since July 2012 (m)
	Easting	Northing	Jul-12	Feb-13	Mar-13	May-15	
Site BEM-01	26.824363	153.131815	15.60	6.80	2.80	1.82	13.78
Site BEM-02A	26.83846	153.128922	30.55	19.80	11.10	8.29	22.26
Site BEM-03A	26.84119	153.12859	41.22	30.70	14.30	12.50	28.72
Site BEM-04	26.854845	153.129301	18.70	3.88	0.65	0.64	18.06

RTI DL Release

From: Julie Northage [Julie.Northage@premiers.qld.gov.au]
Sent: Thursday, 6 June 2013 12:41 PM
To: Sultmann Sel
Subject: RE: Gold coast erosion

Fabulous – thanks Sel

Julie Northage

Principal Policy Officer | Environment and Resources Policy | Department of the Premier and Cabinet
P: (07) 3405 6256 | E: julie.northage@premiers.qld.gov.au

Please consider the environment before printing this email

From: Sultmann Sel [mailto:Sel.Sultmann@ehp.qld.gov.au]
Sent: Thursday, 6 June 2013 12:19 PM
To: Julie Northage
Subject: Gold coast erosion

Hi Julie

Video of Gold Coast erosion and Mayor comments.

<http://www.couriermail.com.au/money/gold-coast-beachfront-property-owners-threaten-class-action-as-they-say-they-have-been-abandoned-to-the-sea/story-e6freqoo-1226651611854>

Spoke to council. There is a proposal being put together for \$30M of erosion protection works, but nothing has been formally sent to the State Govt yet.

Minister Powell letter to Jan Stucky FYI regarding assistance with eroion protection works.

Sel Sultmann
Principal Coastal Scientist
Environment Policy and Planning
Dept of Environment and Heritage Protection

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RTI DL Release