

Hi All,

Bruce is correct in his observation that the sand traps work well where they are exposed to the main wind stream, but lose effectiveness closer to the dune face. This is due to the aerodynamics of the Beach and Dune profiles. Where the beach and dune face meet is a stagnant area of no wind and, of course, no wind-borne sand. The channel is created between the dune face and the built up sand.

The prime objective of the sand traps is to trap sand!

I have noticed that on several occasions that waves that have managed to reach the dune face have been guided by the sand trap structures to flow straight up the beach then have receded back down the beach without the sideways scouring. To stop the erosion of the dune face due to the scouring effects of wave and water movement will have to be a combination of methods.

The idea of sandbagging groynes perpendicular to the dune face to stop the North/South movement of the ponding water is a good one. If someone could come up with an idea to control the "ponding" of the water in the area close to the dune face, that would be a great help as well

Len

On 13/01/2012, at 9:18 PM, bbird <bbird@skymesh.com.au> wrote:

> Hi All

> I had read bob's email and wanted to respond at that point, but waited. I believe that what is suggested doesn't work. Something to do with the closeness of the dune and the wind affect, but the end result is, as I am led to understand - the infill that is desired does not occur.

>

> I don't know enough about wind and patterns and sand drift and the resultant accumulation, but from my previous experience and something that I have been led to understand is just that, it doesn't work accumulate in the same manner.

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> Len may have other information that is contrary, or later than that which I had received

> Bruce

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> On Fri, 13 Jan 2012 09:07:52 +1000, pete dunn wrote:

>> Seem to be filling you inbox at the moment Len, but thought you should see this one too.

>> Bob's note below and 2 photos do highlight a potential issue that would be well worth including in your discussion when you catch up with each other.

>>

>> Bob, you probably already know but Len is the president of DuneCare.

>>

>> Cheers

>> Pete

>>

>> FROM: Bob Stack [<mailto:BobStack@watercom.com.au>]

>> SENT: Thursday, 12 January 2012 12:35 PM

>> TO: 'Tim Heldt'

>> CC: 'Brian Saye'; 'pete dunn'; kristin.stubbins@au.pwc.com; bbird@skymesh.com.au; daryl.h@optusnet.com.au

>> SUBJECT: RE: My two bobs worth

>>

>> Hi All,

I too have some concerns about the sand traps. Many of the traps leave a gap of some metres between the dune and the end of the green mesh. This seems to be encouraging the formation of a channel along the

>> base of the dune (see IMG_0477 attached). The flood debris at the base of the cenotaph is also encouraging a channel along the base of the dune (see IMG_0479 attached) - I think due to a gap between the debris and the dune.

I am concerned that we might be creating a channel for the North/South flow exactly where we don't want it - at

>> the base of the dune. I would like to see this channel filled with sand (i.e. eliminated).

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>> I think we should extend all the sand traps to close the gaps to the dune. Also, where the flood debris has created such a channel we should build small sand traps to try to fill in the channel.

>> Regards, Bob Stack

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>> FROM: Tim Heldt [<mailto:tim.heldt@consulmet.com.au>] [1]
>> SENT: Wednesday, 11 January 2012 7:48 PM
>> TO: Brian Saye; Bob Stack; pete dunn; kristin.stubbins@au.pwc.com ; bbird@skymesh.com.au [3];
daryl.h@optusnet.com.au [4]
>> SUBJECT: My two bobs worth

>>
>> Hi Guys

>>
>> I have enjoyed reading the comments originating from Brian's/Bobs documents. I am a bit strapped for time at the moment, but thought I would add my two bobs worth, so here goes:

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>> 1. The documentation and debate is particularly important. It will support future research efforts, and it will spur us to look for and document more detail - this really is the path to better understanding, and its value simply cannot be emphasised too highly. It will link well to the survey, and systematic photography currently in progress;

>>
>> 2. I think it is important that we propose and implement interventions based on our understanding. For my money, the top ticket item is to work with Dune care and the sand traps. A couple of Brians photos clearly show the water being diverted. I am concerned at the moment that the sand traps don't go far enough out - leading
>> to water erosion at the outer end of the trap - this could actually make things worse if we are not careful. On the upside, the sand traps are passive, economical, and we (says he who hasn't had the chance to lift a shovel yet) have already improved sand trap design - we need to keep this process going, and my pitch would be to take them out to the point where the water is directed straight back to sea, rather than getting a chance to run along the beach (sorry, I don't have Lens email on this machine, can someone pls forward to him). Its all part of the learning journey;

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>> 3. If possible, I think Ideas like Brians emergency measures should be piloted - even if in a small way - how else will we learn? I think this will further encourage CVC (and others) to provide support - even if its only moral at this stage. Certainly much rather have their moral support than a bunch of red tape!

>>
>> As a closing comment for today. I reflect on where we were this time 12 months ago. We really have made great progress thanks to the energy and enthusiasm of everyone involved. Will be interesting to see where we get to in 2012!

>>
>> Best Regards,

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>> Tim Heldt
>> Director

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>> tim.heldt@consulmet.com.au [5]

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