

Vetiver to stabilise tidal estuary ba...

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The Vetiver Network Discussion Board » Vetiver Systems for Beach, Canal, Drainage and River Bank Stabilization » Vetiver to stabilise tidal estuary banks - salinity tolerance?

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Author

Message



Posted on Monday, March 06, 2006 - 06:33 pm:

Anonymous

poker casino [poker_984](#)



Posted on Friday, September 06, 2002 - 05:31 am:

[Taiwan Vetiver Network \(Taiwanvetnet\)](#)

The pictures indicate vetiver will do just fine in the river bank protection. I have done salt tolerance evaluation here in Taiwan both field and lab tests. Vetiver slips were put into a series of salt water solutions, which were made up by adding crude salt into distilled water and the series of concentration were growth below 2% salt concentration. The field testing was conducted in the salt production field of the Taiwan Salt Company where the sea water level is 1.5 meter above the bank of the field in different sites: on the top of the bank which about 1.5meter above the water level, second was in the middle of the bank, which the plants grow normally. The tidal condition is no critical than in the salt evaporation field which is soaked in constant sea water and the salt concentration field test is probably due to the type of planting materials used. The newly splitted slips were used in the lab while the potted and mature plants were like this.

New member
Username:
Taiwanvetnet

Post Number: 1
Registered: 02-2002

I think the application in your site is very likely to be successful.





Posted on Friday, September 06, 2002 - 03:50 am:

[Dick Grimshaw \(Dickji\)](#)

Board Administrator
Username: Dickji

Post Number: 68
Registered: 05-2002



Intriguing!! The existing species seem to grow well in this saline environment, I suspect vetiver would be as good. above the mean high water level twice a day in salt water!!!

I recall that on Pintang island off the East coast of China vetiver would survive occasional salt water flooding.

I would start off with some test planting under the tidal conditions and see what happens.

Posted on Thursday, September 05, 2002 - 02:35 pm:

[Jon McCosh](#)
Unregistered guest

I recieved the following query on vetiver to stabilise the banks of a tidal estuary that are collapsing:

"I will be purchasing Vetiver grass shortly from Steve and wish to use this grass to stabilise a river bank in the Kwelera River near East London[South Africa] will be suitable for this application.

The site (see attached photo) is located on the Kwelera river approximately 1 kilometre upstream within an area affected by tidal movement. The site is with the grass being submerged at high tide.

Please can you forward me any relevant information to enable me to effectively prepare, plant and maintain the grass. Information in regard to grasses from Craig Northwood.

I can obviously provide information on preparation, planting and maintenance of the vetiver.

My concern is salt tolerance. I am aware that vetiver can tolerate high salt concentrations. Tolerating certain conditions, and formation of an effect to what degree do you think vetiver growth will be inhibited, compared to freshwater conditions.

I do not want to recommend vetiver for inappropriate application.

Jon McCosh
SAVN



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