

Tuesday, 3 May 2005

Committee Secretary  
Standing Committee on Science and Innovation  
House of Representatives  
Parliament House  
CANBERRA ACT 2600  
AUSTRALIA

Submission No. ....50.....

Dear Sir,

I would like to make a submission in relation to the lowering of salinity in the soil.

Our technologies are receiving growing attention when employed as a means of mitigating the effects of salinity, improving water quality, plant growth and crop yields and decreased soil salinity.

Scientists from ANSTO – Dr David Stone and Dr Garry Lee and previously Dr John Bradd suggest the effects of salinity can be substantially mitigated by irrigating soils with water which has passed through our Care-Free Water Conditioning system.

Dr Stone's findings were derived from direct observation of plant growth and detailed analysis of soil and salt composition across treated and untreated areas at field sites in New South Wales. The water conditioning systems had been supplied by us and had been in operation for about a year on both sites.

The first site was an irrigated farm near Deniliquin with clover pastures that were grown on ground water which was well above the critical limits for salt content (3,600ppm Total Dissolved Salts). The second site was a severe salt scold on the end of a fairway at the Wagga Wagga Golf course, the course being irrigated with river water. At both these sites, Dr Stone's findings suggest sodium is preferentially mobilised down the soil profile thereby improving the condition of the soil for plant growth.

Dr Garry Lee's findings indicate a substantial reduction in mineral particle size from conditioned to unconditioned water. For example from 400 to 30 microns in some cases.

Dr Craig Russell Research Fellow Centre of Excellence in Natural Resource Management University of Western Australia, has been conducting trials on our water conditioning system for several months. The results are extremely encouraging.

At a vineyard near Mt Barker WA irrigating with 2600mg/l salt water, grape production increased by 25% from the previous year. Even though it was a bad season and the water had increased in salinity.

Not only that but leaf analysis showed a significant lowering of sodium and chloride.

The manager of the vineyard Ray Williams commented he had never witnessed such robust growth on vines growing with such high saline water.

Care-Free Conditioners Australia began in 1980 and is an Australian owned and operated business. Recent discoveries and innovations have resulted in Patents Pending for both our product and process.

Trusting we hear from you shortly.

Sincerely,

Robert Uden,  
Managing Director.