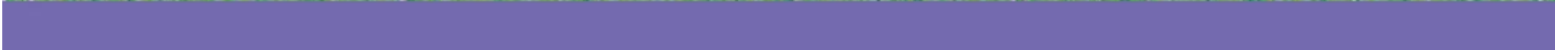


30 Years in the Field





SHOALHAVEN CITY COUNCIL
SEWERAGE EFFLUENT
PILOT PLANT

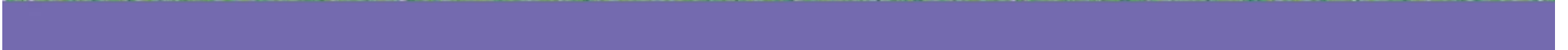
KEEP OUT

TRESPASSERS WILL BE PROSECUTED

BY ORDER: *G. NAPPER*
TOWN CLERK..







The late 1980s and the opportunity for careers in a new field...



1970 Tracks Magazine



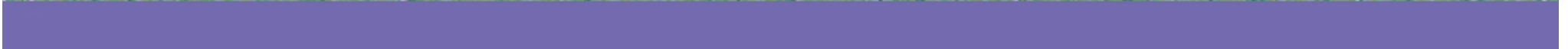
John Witzig, co-founder of the surfing magazine Tracks, wore a gas mask on Whale Beach as an imaginative way of raising awareness of the seriousness of contamination from sewage. The photograph appeared in the magazine's first issue in 1970.





The 1980s – Political Will

- 1980 Premier Wran announces the Deep Ocean Outfalls are to be constructed
- 1985 Research into agricultural land application
- 1986 Water Board Sludge Disposal Strategy
- 1986 Biosolids composting trials



Public Outcry 1988 - 1989



Lifesavers claim sewage is causing deadly diseases

Surfies boycott Sydney's oceans of filth

SURF lifesavers are refusing to swim in the ocean because of sewage and other pollution.

"They believe the filthy state of the sea has been the cause of all kinds of cases of the potentially fatal disease viral meningitis."

Cooze lifeguard Jeff Lemmery, 26, who is recovering after four days in hospital, is determined to wipe the disease from the surf.

Despite the lack of strong medical evidence to support this belief, it is a cause of concern for the 15,000 surfers who have been a lifeguard for 15 years, now refusing to enter Cooze beach.

Rescue

Other lifeguards at Cooze and Manly, who are refusing to swim, say it is a way of life, not a rescue or a fight.

"You wouldn't risk your life for the fish if it was," says Lemmery, who is Cooze beach lifeguard.

Police, who are patrolling the beach, say they are not aware of any cases of viral meningitis.

The Water Board, which issues a warning to the public, says it is not aware of any cases of viral meningitis.

In all these years, I've never known it to be this filthy," he said.

Syringe warning for Harbor helpers

VOLUNTEERS for tomorrow's Sydney Harbor cleanup day have been warned not to pick up discarded syringes as they comb the beach.

Workers who find syringes should report their location to group leaders as they can be disposed of by people from the Royal North Shore Hospital, says Ian Korman, organizer of the day.

Korman, 41, a former vice president of the RNC, says the World Bank will be offering \$100,000 to help with the cleanup of the harbor.

The day will start when the tide is in and end when it drops off to a low, leaving beaches clear to be swarmed for syringes.

Volunteers have a chance to win one of 10 prizes, including a holiday in Fiji.

Jeff Lemmery and his father John with some of the filth washed up on Cooze beach yesterday.

The filth, a regular sight for surfers, includes a range of rubbish, from a broken car to a dead dog. The sewage is a major cause of concern.

Surfers have issued a warning to the public, saying that the water is so filthy that it is not safe to swim.

The Water Board, which issues a warning to the public, says it is not aware of any cases of viral meningitis.

In all these years, I've never known it to be this filthy," he said.

Throat

"It is highly probable to have sewage disposed of so close to the beach," says Korman.

Other major concerns include the fact that the water is so filthy that it is not safe to swim.

A Health Department survey, responsible for investigating such problems, said it could not find any cases of viral meningitis.

Korman, organizer of the clean up



Turn Back the Tide Concert March 1989 When 50,000 becomes 240,000



A ban on ocean disposal



WATER BOARD
Re-use of treated
sewage effluent and sludge.

Special Environmental Levy



- The Clean Waterways Program
- \$ 80 per customer per year
- 5 year program
- \$ 490 million raised
- wastewater treatment, biosolids, effluent, stormwater, public awareness



Public Consultation 1991



SLUDGE MANAGEMENT

For the Sydney Region

A Public Discussion Document



THE NEW SOUTH WALES GOVERNMENT
Putting people first by managing better

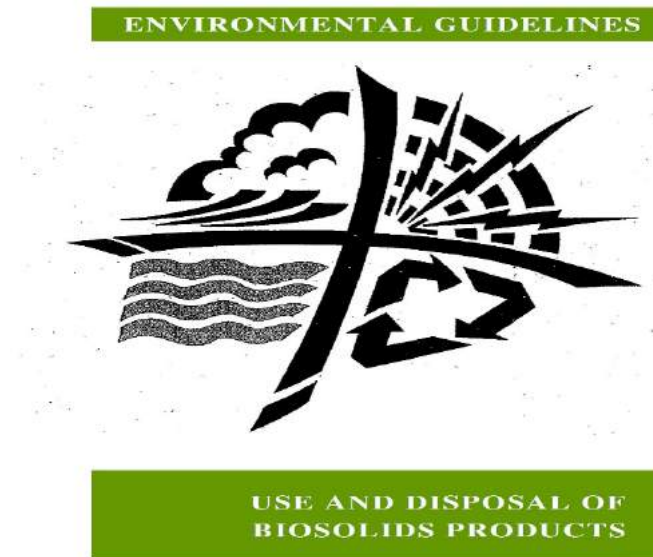
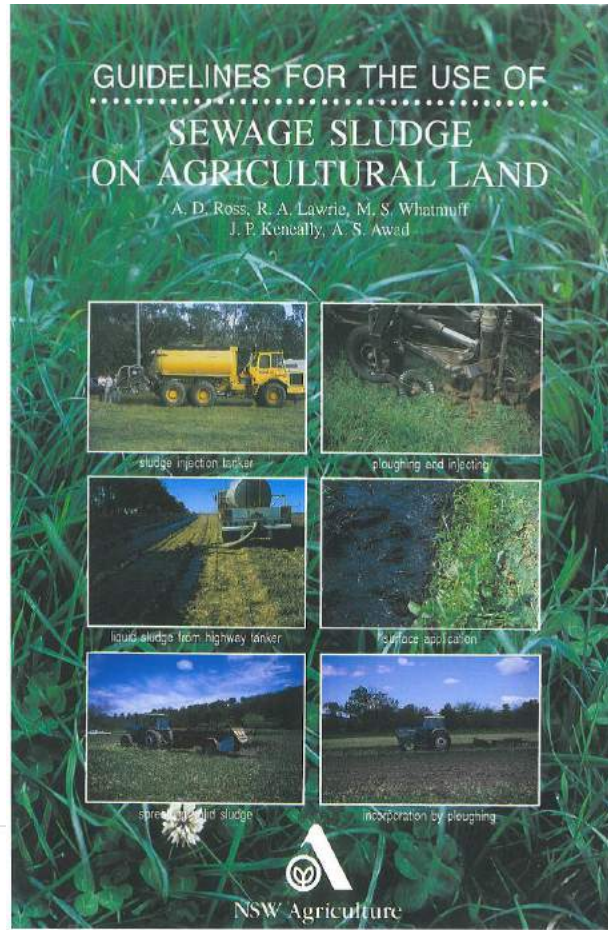


Status in 1993

- Inadequate guidelines
- Community concern
- Odouress biosolids products
- Inter departmental discord
- Concerns from environmental groups



Guidelines



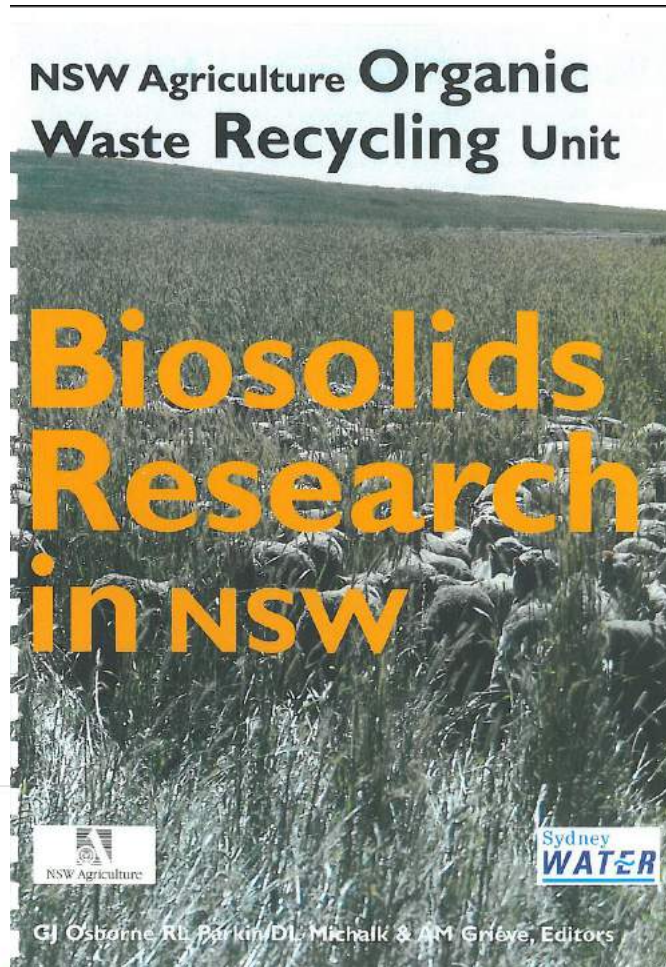
Product Quality



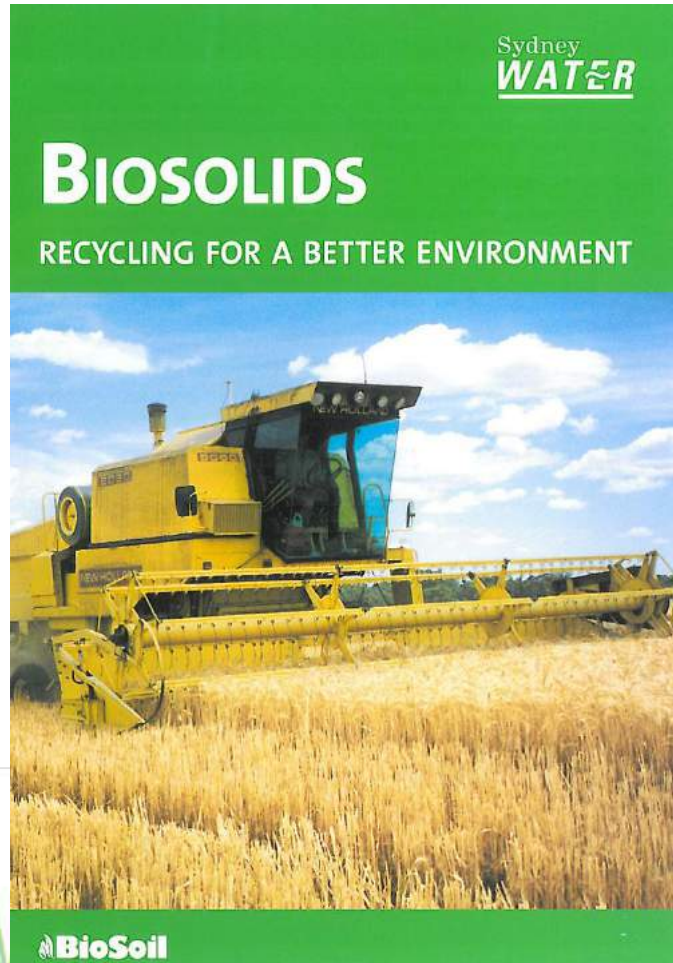
Site inspection – Colac VIC



Early Research



Awareness and Education



A new name for sludge June 1993



Now it's 'Biosoil'

REPRESENTATIVES from the Water Board, and the Forestry Commission, addressed a meeting of the Works and Town Planning Committee on Wednesday, to discuss sewage sludge disposal.

Both departments have been working in conjunction with the Department of Agriculture, looking at ways to use the sludge, a term slowly being changed to 'Biosoil'.

Doctor Georgina Kelly and Jonathan Beckett from the Forestry Commission, and Lisa Rawlinson from the Water Board, told the committee how the sludge has been used on a trial basis in the Belanglo and Penrose State Forests, and on some private lands in the district.

Doctor Kelly said the programme had three objectives; to see if the sludge could be used in forest areas, that it did not create any adverse effects, and to look at the logistics of the operation.

Doctor Kelly reported there had been

a "remarkable" increase in the growth of pine trees in the forest areas, which had been treated with the Biosoil.

She said there was a 50 percent increase in pine trees aged three years, and a 28 percent increase in trees aged 21-years.

"It's looking very positive," Dr. Kelly said.

The aim of the project is to develop Australian guidelines for disposal in all types of soil conditions.

Doctor Kelly said water quality would continue to be monitored in areas up and downstream from the disposal sites.

She said so far, there had been no evidence of increased heavy metals in the water. Doctor Kelly said faecal coliforms had increased from time to time, but this could be due to stock movements or other animals.

The representatives, who were thanked for their presentation, also offered to answer questions at any time.



Don't call it 'sludge', because it's now called 'Biosoil'. The sewage sludge disposal programme in this shire has been going well according to reports this week.

the sludge
Post 28.6.93
Jan.



Early 90s



- New starts of dedicated reuse companies
- Guidelines across Australia
- Variety of Reuse Markets



Markets - Land Application



Forestry



Dewatering



Drying sludge by land plane – Werribee VIC



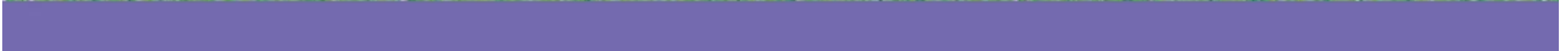






Where are we now?

- Policies & Strategies
- Guidelines
- Treatment Processes & Product Quality
- Reuse Methods
- Research & Industry Group
- Public Awareness & Community Consultation

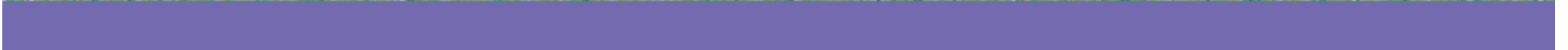


Connection to Farmers



The Lester-Smiths (biosolids farmers)– Woodend VIC

Biosolids Beauty



Animal Rescues





Roo Rescue



Golden Wedge Tail Eagle

