

WALGA Field Tour of Lake Algal ➤ Bloom Management

Presented by Dave Latham



Locations visited today

- Amadeus Gardens Reserve – Port Kennedy (Simplot)
- Chelmsford Reserve – Port Kennedy (Barley Straw)
- Centenary Res – Waikiki (Aquaritin)
- Hawker Reserve – Safety Bay (Soilzyme)

History

- City of Rockingham used the BASF Lake products
- These are no longer brought into Australia
- We needed a replacement product
- After looking around on the net and speaking to people I came up with the following
- Simplot
- Barley Straw Bales
- Aquaritin
- Soilzyme
- It was decided to trial all these products

Future

- This year is really a trial on how these perform
- We have done some testing but intend to carry out more testing mid to late Dec and again in Feb-Mar
- We will be looking at nutrients and types of algae's in the water bodies

Simplot

- A proprietary blend of naturally occurring, non-pathogenic, non-genetically altered microorganisms on a natural carrier
- Vista and Blast used together – initial treatment
- Aqua spheres – maintenance
 - Amadeus Gardens
 - Baltimore Res
 - Carpentaria Rd Res
 - Fountain Park
 - St Claire
 - Strasbourg Ramble
 - The Avenue
 - Tuart Park

Amadeus Gardens (1377000lt)

Vista - 1 Packs Blast - 3 Packs (applied on 11 Sep 19, 23 Sep 19, 03 Oct 19)

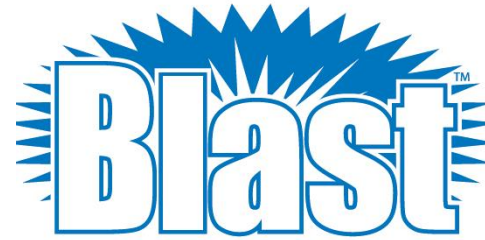
- 1 Pak per 900 000 lt water



**NOW IS THE TIME TO
TREAT PONDS NATURALLY**

Product Attributes

- Improves water clarity
- Safe, natural, and 100% biodegradable
- Surface Treatment
- Easy to use, no mixing required
- Targets floating organic matter



**NOW IS THE TIME TO
TREAT PONDS NATURALLY**

Product Attributes

- Improves water clarity
- Safe, natural, and 100% biodegradable
- Easy to use, no mixing required
- Targets suspended organic matter
- Reduces sludge layer
- Replaces chemicals and copper

Amadeus Gardens

Aqua Sphere 1,800,000 (applied on 22 Oct 19, 21 Nov 19)

- 1 sphere per month



**NOW IS THE TIME TO
TREAT PONDS NATURALLY**



Dosage Size Options

AquaSpherePRO is available in 5 sizes (3,600 • 45,000 • 180,000 • 900,000 • 1,800,000 Litres) and treats bodies of water for 30 days.

Product Attributes

- Controls dead organic matter
- Improves water clarity
- Safe, natural and 100% biodegradable
- Easy to use, no mixing required
- 24 hours a day 7 days a week time release
- Great for irrigation ponds

Barley Straw

- The technique of using barley for algae control was developed in England, where it is widely used in many bodies of water, including large reservoirs and canals. In general, it is thought that fungi decompose the barley in water, which causes a chemical to be released that prevents the growth of the algae. The specific chemical(s) has not been identified (oxidized polyphenolics and hydrogen peroxide are two decomposition products that have been suggested), and it is not clear whether the chemical is exuded from the barley itself or if it is a metabolic product produced by the fungi. The activity of barley straw is usually described as being algistatic (prevents new growth of algae) rather than algicidal (kills already existing algae).
- Bayeux Res, Chelmsford Res and Townsend Rd Res

Chelmsford Reserve (7150000lt)

- 19 June 2019



- 19 June 2019



Chelmsford Reserve

- 30 July 2019



- 30 July 2019

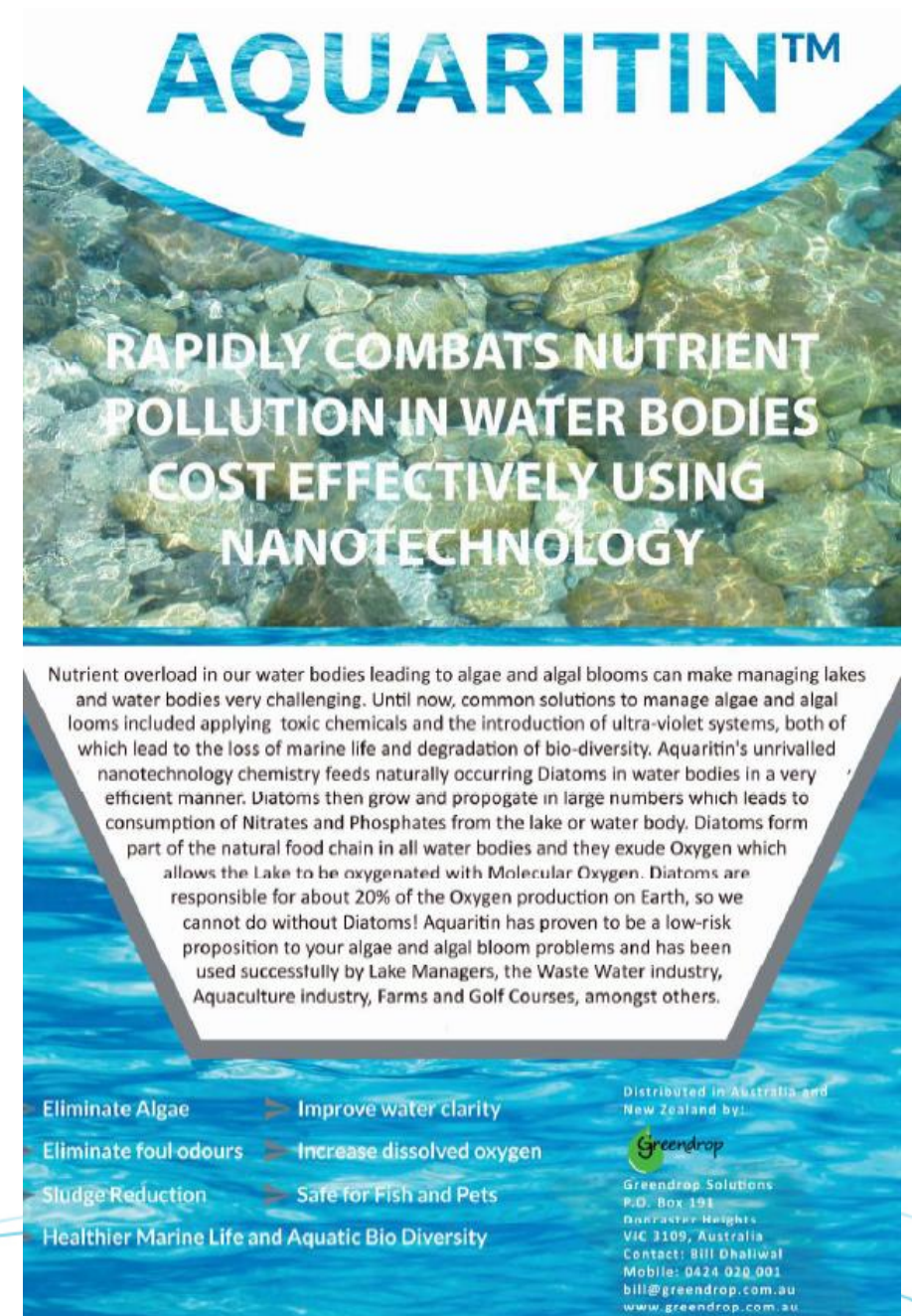


Aquaritin

- is a liquid product that feeds diatoms that are naturally occurring in all water bodies. When fed with Silica and micronutrients from Aquaritin, these diatoms grow and multiply very quickly and in doing so they consume large amounts of nitrates and phosphates from any water body. Diatoms then give off oxygen, which increases the levels of Dissolved Oxygen in the water
- Apache Rd Res
- Centenary Park
- Renegade Reserve
- Ridge Reserve
- Rhapsody Res
- Rivergums Reserve
- Rothbury Parade
- Waterfront Parkway

Centenary Park (4596000lt)

- 310ml a week for the first 4 weeks
- Then 310ml once a month
- Applied on the following dates
- 20 Aug 19
- 28 Aug 19
- 4 Sep 19
- 13 Sep 19
- 16 Oct 19
- 21 Nov 19



AQUARITIN™

RAPIDLY COMBATS NUTRIENT POLLUTION IN WATER BODIES COST EFFECTIVELY USING NANOTECHNOLOGY

Nutrient overload in our water bodies leading to algae and algal blooms can make managing lakes and water bodies very challenging. Until now, common solutions to manage algae and algal blooms included applying toxic chemicals and the introduction of ultra-violet systems, both of which lead to the loss of marine life and degradation of bio-diversity. Aquaritin's unrivalled nanotechnology chemistry feeds naturally occurring Diatoms in water bodies in a very efficient manner. Diatoms then grow and propagate in large numbers which leads to consumption of Nitrates and Phosphates from the lake or water body. Diatoms form part of the natural food chain in all water bodies and they exude Oxygen which allows the Lake to be oxygenated with Molecular Oxygen. Diatoms are responsible for about 20% of the Oxygen production on Earth, so we cannot do without Diatoms! Aquaritin has proven to be a low-risk proposition to your algae and algal bloom problems and has been used successfully by Lake Managers, the Waste Water industry, Aquaculture industry, Farms and Golf Courses, amongst others.

• Eliminate Algae	➤ Improve water clarity
• Eliminate foul odours	➤ Increase dissolved oxygen
• Sludge Reduction	➤ Safe for Fish and Pets
• Healthier Marine Life and Aquatic Bio Diversity	

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Centenary Park

- 20 Aug 2019



- 28 Aug 2019



Centenary Park

- 31 Oct 2019



- 19 Nov 2019



Soilzyme (Pondzyme)

- Soilzyme is a biochemical designed for the used in lakes and has been on the market now since 1996, Its advanced new enzyme technology uses specially selected enzymes to biologically
- Increase of DO (Dissolved Oxygen) for the first 7-8 Days about 40-60% (after an initial drop due to increased BOD (Biological Oxygen Demand)).
- Reduction even elimination of organic residue likes slime, fouling material.
- Improved water quality and visibility
- 80% or more reduction of Algae and Algae Blooms.
- Elimination of Blue green Algae within 3-4 Days of application. A number of lakes shown to have no further outbreaks, when product is used properly.
- It is not a microbial inoculant because it contains no actual living organisms of its own.
- It is formulated and manufactured in Australia and marketed as a liquid concentrate
- When adding Soil-Zyme to the irrigation pond, nutrients are being converted, organic matter being biodegraded, iron and bicarbonate being processed. The overall effect is that many problems being reduced even eliminated like iron bacteria, bicarbonate causing blockages, Algae problems in water.
- The nutrients rather feeding fungi or moss is converted in a form that the target plant can absorb them.

Soilzyme (Pondzyme) continued

- Bayside Res
- City Park
- Don Cuthbertson Reserve
- Harmony Park
- Harrington Gardens
- Hawker Reserve
- Sunlight Park

Hawker Reserve (50550000lt)

- 20 Aug 2019



- 20 Aug 2019



Hawker Reserve

- 1 Nov 2019



- 1 Nov 2019



› Questions

Thank you

