



ALGAE CONTROL

FLOATING DIFFUSED SUB-SURFACE AERATION FOR SEWAGE LAGOONS/PONDS

For Earth have developed a unique floating diffused aeration system for wastewater ponds.

The aeration system comprises of land based aeration blowers, poly supply lines and the diffusers are designed by For Earth and are highly efficient in dissolved oxygen supply in process water (SAE). The diffusers are micro-bubble with pore size 0.3-0.8mm.

The advantages of the floating diffused aeration system;

- Simple maintenance and servicing. Aeration Blowers are land based. Diffusers require cleaning annually and are easily removed and cleaned and replaced.
- Very low noise.
- Even distribution of dissolved oxygen
- No erosion of banks
- Easily relocated to other sites
- Considerable energy savings.

We recommend the application of our bacteria product **For Earth Bio** to ensure correct bacteria are present to reduce nutrients that promote algae growth.

If you have any questions Please don't hesitate to contact me directly.

Best regards

*Shane Mckibbin
Manager*



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For Earth Pty Ltd (since 2004)

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PROJECT FILE

Algae Control



Wastewater Solutions

Client	Council
Location	NSW
Sewage Treatment	Oxidation Ponds - since 1991
Est daily flow (DWF)	350,000L
Population	1400
Issues	Sludge Build up in ponds / algae blooms / water quality
Works installed	Installation of For Earth bacteria dosing and low energy diffused aeration system into lagoons 1 and 2.
Install Date	20/01/2014
Description	The two Google images below provide pre installation algae issue and post installation improvement in Lagoons 1 and 2 during peak Algae bloom season.



For further details email: shanem@forearth.com.au

PROJECT FILE

Algae Control



Wastewater Solutions

Client	Council
Location	NSW
Sewage Treatment Process	Digester, Trickle Filter and maturation pond
Est daily flow (DWF)	325,000L
Population	1300
Issues	Maturation pond experiences algae blooms in summer
Works installed	Installation of For Earth low energy aeration system
Install Date	10/05/2007
Description	Carryover nutrient from treatment plant, stagnant water, high temps causing severe algae blooms. Sub-surface diffusers installed at inflow and discharge of pond.



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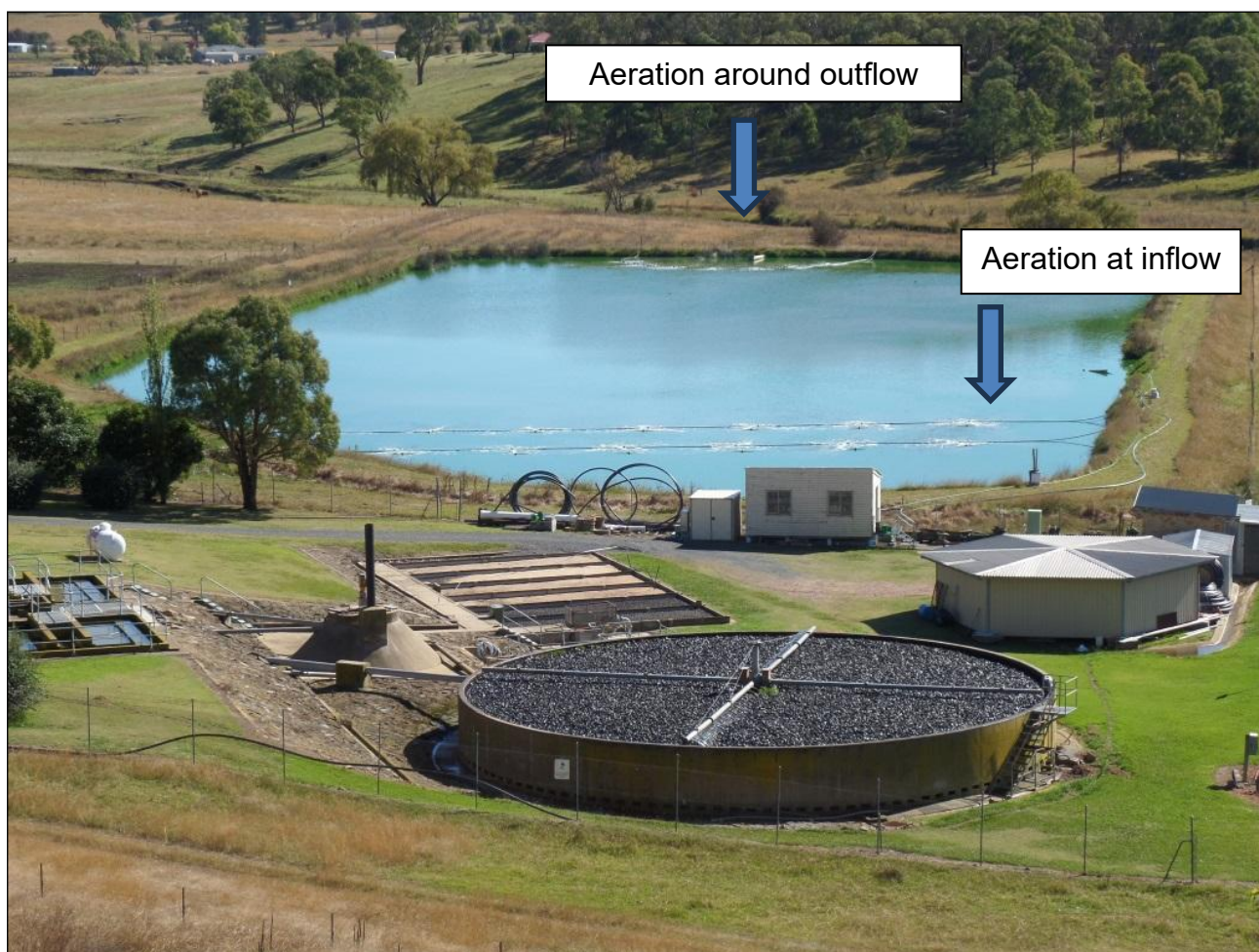
PROJECT FILE

Algae reduction in Tertiary ponds



Wastewater Solutions

Client	Council
Location	NSW
Sewage Treatment Process	Primary settling tank , anaerobic digester, trickle filter and tertiary pond
Est daily flow (DWF)	750,000L
Population	3,021
Issues	Algae in tertiary ponds during summer
Works installed	Installation of For Earth low energy aeration system and bacteria dosing system in Tertiary pond - inflow and outflow zones.
Reason	Reduce carryover nutrient levels from plant; prevent stagnation; desludge pond.
Description	13/3/15: For Earth diffused aeration and automated bacteria system installed into Tertiary pond.



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PROJECT FILE

Floating Diffused Aeration



Wastewater Solutions

Client	Council
Location	NSW
Sewage Treatment Process	SBR, tertiary ponds
Est daily flow (DWF)	3,000,000L
Population	17,000
Issues	Algae in summer blocking irrigation
Works installed	Installation of For Earth low energy aeration system and bacteria dosing system
Install Date	Dec 2017
Description	Aeration Initially installed into inflow cells of tertiary lagoon and then installed into outflow cell the following summer.



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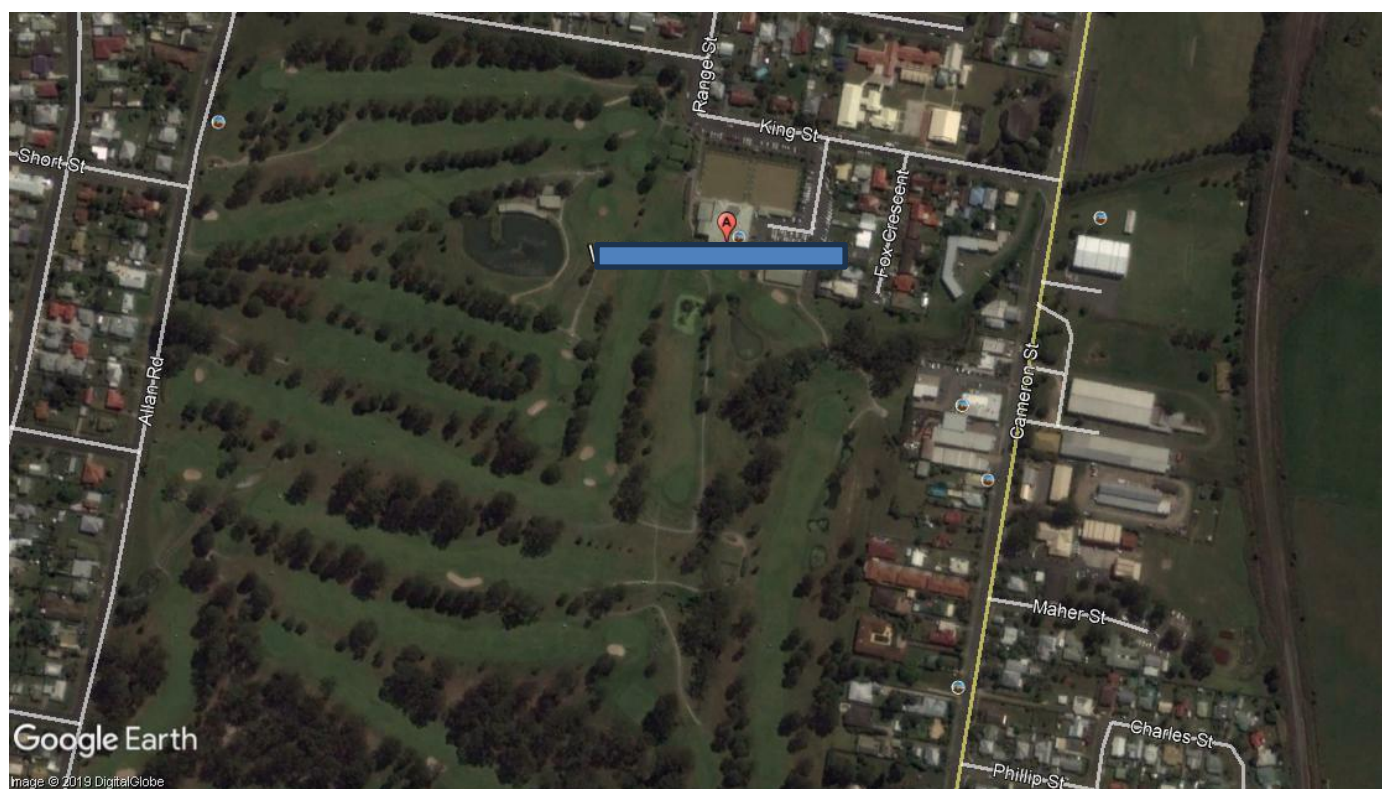
PROJECT FILE

Algae Control



Wastewater Solutions

Client	Golf Course
Location	NSW
Treatment Process	Irrigation water holding dam.
Est daily flow	Rainfall and top up from tertiary treated wastewater.
Issues	Algae blooms in summer blocking irrigation systems
Treatment	2008: Client had existing aeration system so simply applied For Earth Bio manually.
Description	Golf greenkeeper experiencing frustrating irrigation blockage issues in summer due to algae blooms. Commenced a bacteria application programme and no longer has these issues.



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PROJECT FILE

Algae Control



Wastewater Solutions

Client	Council
Location	NSW
Sewage Treatment Process	IDEA treatment process and tertiary ponds
Est daily flow (DWF)	800,000L
Population	400
Issues	Algae blooms in Summer
Works installed	For Earth floating diffused aeration system
Install Date	June 2013



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PROJECT FILE

Floating Diffused Aeration – Algae treatment



Wastewater Solutions

Client	Council
Location	NSW.
Sewage Treatment Process	Oxidation ponds , tertiary pond, winter storage.
Est daily flow (DWF)	300,000L
Population	900
Issues	Algae
Works installed	Installation of For Earth diffused aeration system



Before

After

