

Submission on the proposed ocean outfall pipe from Oceania Dairy Limited, near Glenavy.

Name: Andrew Oliver

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I oppose the proposed outfall pipe.

I am very concerned that sending out 10,000 litres of wastewater per day into the ocean will likely harm the immediate and surrounding marine environment, affecting both the biological diversity (aquatic plants, crustaceans, fish and mammals) as well as adversely affecting the chemical composition of the sea, including acidification. Evidence suggests our marine environment is already under stress without adding more contaminants to it.

I am also concerned about the cumulative effects of discharges along the coast (Pukeuri, Fonterra, Pureora).

Further, for our products to be marketed successfully internationally, we as a nation capilise on our assumed 'clean green' image. Surely an outfall pipe as that proposed is detrimental in the long run to Oceania's own brand image and that of the nations.

I would like to see more being done to protect the environment by looking at these options:

1. Find a way of using less harmful chemicals in the cleaning process.
2. Reduce the amount of waste as much as possible.
3. Re-use the contaminated wastewater after some form of treatment.
4. Store the re-used wastewater in something like a septic tank or reservoir. Apply further treatment. Does UV radiation break down chemicals?
5. Spread the final product back on the land, while growing a non-edible crop. The surrounding land is frequently irrigated, so it would make sense to use the wastewater for irrigation.
6. Provide a good-sized buffer zone (1km?) from the sea/rivers/streams with marsh/flax plants to help filter the contaminants.

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