

# Nathan Lane

Dear Ms. Marla Koberstein,

Thank you for the opportunity to comment on Ecology's Natural Conditions Proposed Rule under Chapter 173-201A WAC, Water Quality Standards for Surface Waters of the State of Washington. I am an individual person and I care deeply about maintaining protective water quality standards throughout Washington's waters.

First and foremost, we remind Ecology that under Chapter 90.48 of the Revised Code of Washington, "...it is the public policy of the state of Washington to maintain the highest possible standards to insure the purity of all waters of the state consistent with public health and public enjoyment thereof, the propagation and protection of wild life, birds, game, fish and other aquatic life, and the industrial development of the state..." Under no circumstances should Ecology weaken the state water quality standards for dissolved oxygen or temperature, which are both critical to the survival and future of salmon and other aquatic life. Ecology has been managing waters of the state using the human allowances of 0.2 mg/L dissolved oxygen and 0.3°C temperature using known and reasonable technologies for decades. Any increase in the allowance would be inconsistent with Chapter 90.48 RCW.

Secondly, Ecology should not risk a jeopardy finding under the Endangered Species Act. In 2008, both the National Marine Fisheries Service and US Fish and Wildlife Service found that human allowances of 0.2 mg/L of oxygen or 0.3°C for temperature when natural conditions are worse than the numerical standards would be insignificant and unlikely to harm endangered species. Any process that deviates from those values would require additional Biological Opinions. A jeopardy finding would cause significant delays in the adoption of these water quality standards. The most efficient path that maintains species protections is to maintain the current levels of 0.2 mg/L dissolved oxygen and 0.3°C when natural conditions are worse than the numeric values in the water quality standards.

Third, Ecology must factor climate change into the human allowances. Climate change will warm waters through a variety of processes, and warmer water holds less oxygen. This means there is less capacity for impacts from current human activities, which will result in more stringent regulatory requirements.

While some polluters may suggest a long process to make room for weaker standards, we cannot wait years for a decision. Ecology needs protective approaches for temperature and dissolved oxygen now. We urge you to reject any efforts that would delay implementation of stringent water quality standards across the state.

Additionally my company is called Global Mitigation Technologies, we specialize in crises risk mitigation, the current paradigm is a state wide standard that only facilitates guidelines. Regional values change significantly seasonally and are trending towards a much hotter climate with precipitous decreases in DO content oftentimes not even monitored in Individual water bodies.

Any changes in these guidelines will further exacerbate an already very opaquely monitored resource under tremendous environmental stressors without further human caused additionality.

My company is Global Mitigation Technologies, we are very focused on this specific regional and global crisis and have developed technological innovations that dramatically increase dissolved oxygen while reducing tipping point temperatures that are devastating our state and global aquatic biodiversity and resources. We would love to assist in facilitation of a statewide risk management program that facilitates a cost-effective solution to prevent the ubiquitous inevitable collapse of our critical aquatic resources. Please contact me regarding this resource management issue at the provided contact points so we can protect our states aquatic resources before it's too late. Our solutions are viable in fresh and salt water.

Best regards,

Nathan Lane

Founder/CEO

Global Mitigation Technologies

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Thank you, Nathan Lane 11931 Freeway P1 Everett, WA 98208