


Wastewater 2030

Sewage- drainage from toilets, urinals.

Grey water- drainage from dishwater, shower, laundry, bath and washbasin drains.





US EPA report – “Untreated grey water characteristics are similar to, and in some cases have a higher concentration of constituents than domestic sewage”

- Fecal coliform = 1-3 > untreated domestic wastewater
- BOD = 4 x higher domestic sewage

- Excessive algal growth from nutrients

Dead zones

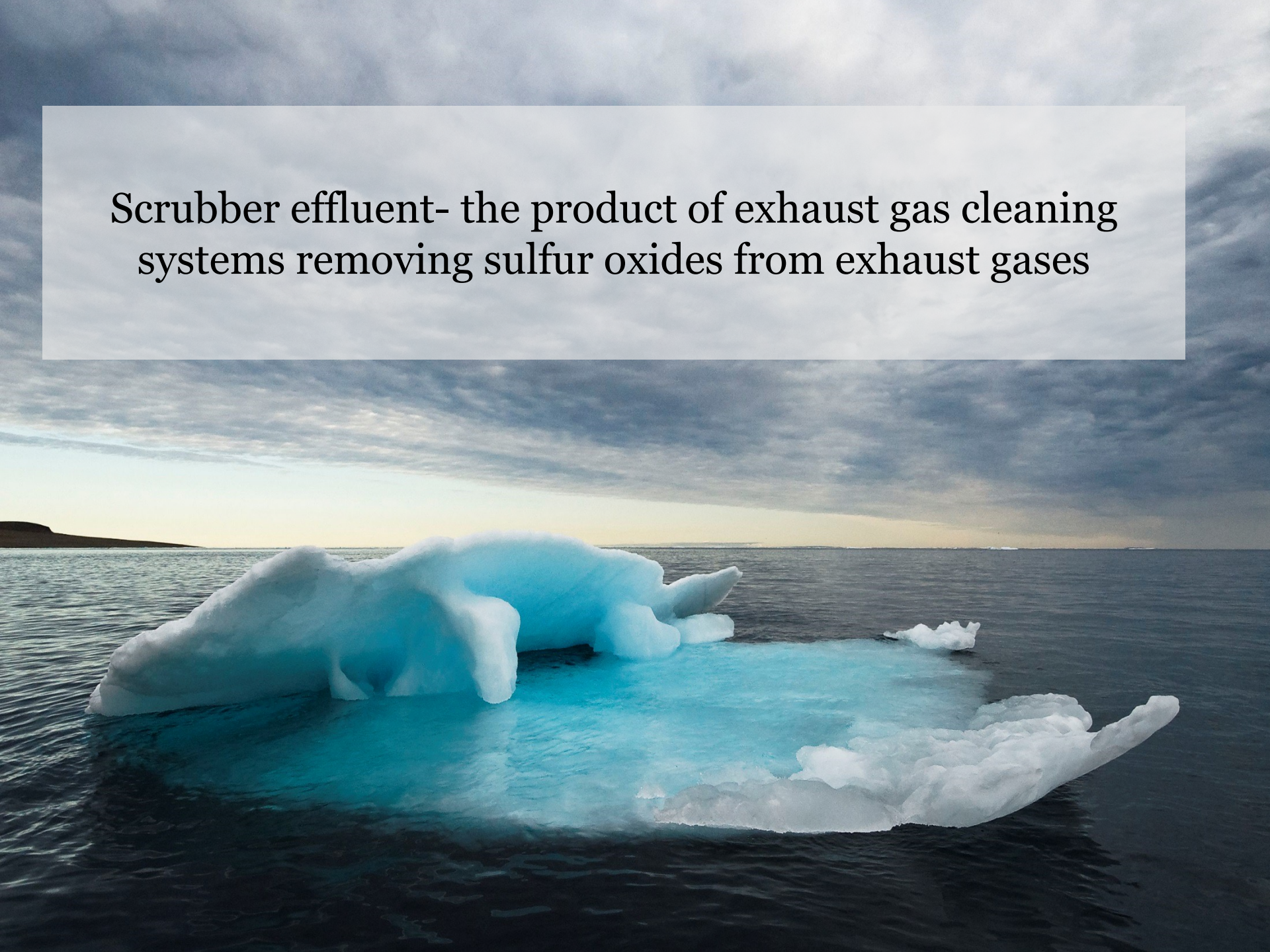
- Increased particulate matter

Smother benthic species

- Pathogen vector

Ecological and human health risks

Scrubber effluent- the product of exhaust gas cleaning systems removing sulfur oxides from exhaust gases



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A person wearing a blue jacket and a red hat stands on a rocky shore, looking out at the ocean. The sky is a mix of blue and orange, suggesting a sunset or sunrise. The water is turbulent, with white foam from waves crashing against the rocks in the foreground.

Advanced treatment of sewage and grey water

No dumping in sensitive areas

No scrubbers in use