

# Residuos de plaguicidas en aguas superficiales de la región de Chile. Estudio prospectivo

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A study was done of seasonal variations of pesticide contents in waters of the Aconcagua river basin and Aromos dam in the V Region of Chile by solid phase extraction (SPE) and Chromatographic determination with GC-ECD, GC-FPD and HPLC-DAD. The waters of the Aconcagua river get contaminated as a result of phytosanitary treatments from San Felipe to the mouth in Concon with the pesticides lindane, diazinon, oxyfluorfen and dicofol at levels below the international standard, and with azinphos-methyl, methabenzthiazuron, lenacil, diflubenzuron and atrazine at levels above the European standards. Waters flowing into the valley are free from pesticide as far as Los Andes. At Aromos dam atrazine coming from Limache valley was quantified at minimum levels. The environmental behaviour of these pesticides was estimated by the log Pow index, the physical chemical characteristics of the waters, and regional rainfall.