Analysis and consideration of metal ion concentration of water taken in a stream in Yosemite Valley using ICP-AES Ver.5

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We took water samples at six spots in the Merced River and surrounding rivers flowing through Yosemite National Park. Then we measured ion concentration of 28 different metals using ICP-AES with the support of Shinshu University Faculty of Engineering Department of Environmental Science and Technology. Among those metals, the detected amounts of these 8 ions -Barium, Calcium, Iron, Potassium, Magnesium, Sodium, Strontium, and Yttrium- were relatively high. So referring to this data, comparing that with the data from the past 4 years, we considered correlations between the length of the rivers and concentration of ions.

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