

## Estimation of Radioactive Contaminant Load from Abukuma River

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Most of radioactive material released from Abukuma River Basin, one of the largest stream near the contaminated zone of Fukushima, flowing most of the contaminated plane zone then flow into the Pacific Ocean, are in the suspended particulate form, more than 90 % in the upper stream and 70 % in the river mouth. Most of them are still trapped in the middle of the basin, however we find that significant amount are released during the heavy precipitation event. We also found that, at hydrological extremes the total loading increase more than 1000 times higher than the normal stream condition due to the catchment characteristics.

Keywords: Abukuma River, Radioactive loading

