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Publication of a report on First Interlaboratory Comparison on the Determination of Radionuclides in the Marine Environment

The International Atomic Energy Agency (IAEA) has been conducting Interlaboratory Comparison (ILC) since 2022 to corroborate Sea Area Monitoring related to ALPS treated water, as part of its review of the safety related aspects of handling ALPS treated water stored at TEPCO's Fukushima Daiichi Nuclear Power Station (FDNPS). In this ILC, marine samples in the vicinity of the TEPCO's FDNPS are collected jointly with the IAEA and the Government of Japan (GOJ), the samples are analyzed individually by the IAEA and the Japanese analytical laboratories, and the IAEA assesses the comparison of the analytical results.

We announce that the IAEA has released a report on the results of the first ILC. The report summarizes the analytical results of the samples taken in November 2022, in which IAEA-designated ALMERA^{*1} laboratory from the Republic of Korea also participated.

In the published report, the IAEA concluded that "Japan's sample collection procedures follow the appropriate" and "the results obtained in ILC demonstrate a high level of accuracy and competence on the part of the Japanese laboratories involved in the analyses of radionuclides in marine samples for environmental monitoring".

For your information, the report on ILC (2022), which has been conducted since 2014 to assist the GOJ in ensuring Sea Area Monitoring related to the accident at TEPCO's FDNPS is credible and transparent, has already separately published by IAEA in December 2023.

- IAEA Review of Safety Related Aspects of Handling ALPS Treated Water at TEPCO's Fukushima Daiichi Nuclear Power Station ("First Interlaboratory Comparison on the Determination of Radionuclides in the Marine Environment")
 - ◆ Full report:
https://www.iaea.org/sites/default/files/1st_ilc_marine_monitoring.pdf
- The ALMERA network (Analytical Laboratories for the Measurement of Environmental Radioactivity) is a network established in 1995 and comprising 200 member laboratories globally that is coordinated by the IAEA to maintain and develop capability on the determination of radionuclides in environmental samples.

Contact information

[Analysis of seawater, sediment and marine biota]

Mr. Hosogai, Mr. Ikeda, Mr. Kono, Radiation Monitoring Division, Radiation Protection Department, Nuclear Regulation Authority

Phone: +81-3-3581-3352 (Switchboard)
 +81-3-5114-2125 (Direct)

Mr. Maeda, Mr. Ishikawa Marine Environment Division, Environmental Management Bureau, Ministry of the Environment

Phone: +81-3-3581-3351 (Switchboard)
 +81-3-5521-8306 (Direct)

[Analysis of fish]

Mr. Nakayama, Ms. Takano, Ms. Nakamura, Research and Technological Guidance Division, Resources Enhancement Promotion Department, Fisheries Agency of Japan

Phone: +81-3-3502-8111 (Switchboard) Ext 6782
 +81-3-6744-2030 (Direct)