Information, July, 2025

To All Missions (Embassies, Consular posts and International Organizations in Japan)

Report on the discharge record and the seawater monitoring results at Fukushima Daiichi Nuclear Power Station during June

The Ministry of Foreign Affairs wishes to provide all international Missions in Japan with a report on the discharge record and seawater monitoring results with regard to groundwater pumped from the sub-drain and groundwater drain systems, as well as bypassing groundwater pumped during the month of June at Fukushima Daiichi Nuclear Power Station (NPS).

1. Sub-drain and Groundwater Drain Systems

In June purified groundwater pumped from the sub-drain and groundwater drain systems was discharged on the dates shown in Appendix 1. Prior to every discharge, an analysis on the quality of the purified groundwater to be discharged was conducted by Tokyo Electric Power Company (TEPCO) and the results were announced.

All the test results during the month of June have confirmed that the radiation levels of sampled water were substantially below the operational targets set by TEPCO (these operational targets are well below the density limit specified by the Reactor Regulation). The results of these analyses were also confirmed by third-party organization (Tohoku Ryokka Kankyohozen Co.).

In addition, TEPCO and Japan Atomic Energy Agency (JAEA), at the request of the Government of Japan, regularly conduct more detailed analyses on the purified groundwater. The results of JAEA's latest analyses confirmed that TEPCO's analyses were accurate and verified that the radiation levels of sampled groundwater was substantially below the operational target (see Appendix 2).

Moreover, TEPCO publishes the results of analyses conducted on seawater sampled during the discharge operation at the nearest seawater sampling post from the discharge point (see Appendix 3). The results show that the radiation levels of seawater remain lower than the density limit specified by the Reactor Regulation and significant change in the radioactivity has not been observed.

2. Groundwater Bypassing

In June, the pumped bypassing groundwater was discharged on the dates shown in Appendix 4. Prior to every discharge, an analysis on the quality of the groundwater to be discharged was conducted by TEPCO and the results were announced.

All the test results during the month of June have confirmed that the radiation levels of sampled water were substantially below the operational targets set by TEPCO (these operational targets are well below the density limit specified by the Reactor Regulation). The results of these analyses were also confirmed by Japan Chemical Analysis Center.

In addition, TEPCO and JAEA, at the request of the Government of Japan, regularly conduct more detailed analyses on the groundwater. The results of JAEA's latest analyses confirmed that TEPCO's analyses were accurate and verified that the radiation levels of the sampled groundwater were substantially below the operational target (see Appendix 5).

Moreover, TEPCO publishes analysis results on seawater sampled during the discharge operation at the nearest seawater sampling post from the discharge point (see Appendix 6). The result shows that the radiation levels in seawater remain lower than the density limit specified by the Reactor Regulation and significant change in the radioactivity has not been observed. The analysis had been conducted once a month until March 2017. Since April 2017, it is conducted four times a year because there has been no significant fluctuation in the concentration of radioactive materials in the sea water, and no influence on the surrounding environment has been confirmed.

The sampling process for analyses conducted this month is the same as the one conducted in the information disseminated last month. Results of the analyses are shown in the attached appendices:

(For further information, please contact TEPCO at (Tel: 03-6373-1111) or refer to the TEPCO's website:

http://www.tepco.co.jp/en/nu/fukushima-np/handouts/index-e.html)

Contact: International Nuclear Energy Cooperation Division, Ministry of Foreign Affairs, Tel 03-5501-8227 Results of analyses on the quality of the purified groundwater pumped from the subdrain and groundwater drain systems at Fukushima Daiichi NPS (made available by TEPCO prior to discharge)

	T	T	(Unit: Bq/
		Analytical body	
Date of sampling	Detected		Third-party
*Date of discharge	nuclides	TEPCO	organization
	0 101	ND (0.04)	
June 26 th , 2025	Cs-134	ND (0.81)	ND (0.64)
	Cs-137	ND (0.86)	ND (0.51)
*Discharged on July 1 st ,2025	Gross β	ND (0.65)	ND(0.36)
	H-3	620	630
luno 24th 2025	Cs-134	ND (0.81)	ND (0.54)
June 24 th , 2025	Cs-137	ND (0.77)	ND (0.64)
*Discharged on June 29 th ,2025	Gross β	ND (1.9)	ND (0.44)
	H-3	590	610
	Cs-134	ND (0.92)	ND (0.67)
June 23 rd , 2025	Cs-137	ND (0.62)	ND (0.55)
*Discharged on June 28 th ,2025	Gross β	ND (2.1)	ND (0.35)
June 20 ,2020	H-3	620	640
	Cs-134	ND (0.69)	ND (0.67)
June 22 nd , 2025	Cs-137	ND (0.65)	ND (0.45)
*Discharged on June 27 th ,2025	Gross β	ND (2.0)	ND (0.30)
June 27",2025	H-3	600	700
	Cs-134	ND (0.89)	ND (0.:65)
June 21 st , 2025	Cs-137	ND (0.73)	ND (0.80)
*Discharged on	Gross β	ND (1.8)	0.51
June 26 th ,2025	H-3	590	630
	Cs-134	ND (0.81)	ND (0.49)
June 20 th , 2025	Cs-137	ND (0.82)	ND (0.59)
*Discharged on	Gross β	ND (1.8)	ND (0.34)
June 25 th ,2025	H-3	610	640
	Cs-134	ND (0.81)	ND (0.59)
June 19 th , 2025	Cs-137	ND (0.68)	ND (0.63)
*Discharged on	Gross β	ND (1.7)	ND (0.33)
June 24 th ,2025	H-3	670	700
June 18 th	Cs-134	ND (0.95)	ND (0.63)
, 2025	Cs-137	ND (0.84)	ND (0.57)
*Discharged on	Gross β	ND (0.66)	ND(0.32)
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June 23 rd ,2025	H-3	670	730
June 17 th ,2025	Cs-134	ND (0.68)	ND (0.44)
·	Cs-137	ND (0.90)	ND (0.45)
*Discharged on June 22 nd ,2025	Gross β	ND (1.8)	ND (0.32)
Jane 11 ,1010	H-3	680	730
	Cs-134	ND (0.81)	ND (0.61)
June 16 th , 2025	Cs-137	ND (0.89)	ND (0.60)
*Discharged on June 21 st ,2025	Gross β	ND (2.0)	ND (0.30)
June 21 ,2023	H-3	710	730
	Cs-134	ND (0.88)	ND (0.67)
June 15 th , 2025	Cs-137	ND (0.75)	ND (0.69)
*Discharged on June 20 th ,2025	Gross β	ND (1.7)	ND (0.32)
Julie 20 ,2023	H-3	670	730
	Cs-134	ND (0.88)	ND (0.69)
June 14 th , 2025	Cs-137	ND (0.75)	ND (0.63)
*Discharged on June 19 th ,2025	Gross β	ND (1.8)	ND (0.38)
June 19,2025	H-3	630	680
	Cs-134	ND (0.82)	ND (0.62)
June 13 th , 2025	Cs-137	ND (0.71)	ND (0.75)
*Discharged on	Gross β	ND (1.9)	ND (0.29)
June 18 th ,2025	H-3	600	640
	Cs-134	ND (0.88)	ND (0.54)
June 12 th , 2025	Cs-137	ND (0.74)	ND (0.66)
*Discharged on	Gross β	ND (2.0)	ND (0.32)
June 17 th ,2025	H-3	570	630
	Cs-134	ND (0.75)	ND (0.43)
June 11 th , 2025	Cs-137	ND (0.68)	ND (0.62)
*Discharged on	Gross β	ND (1.9)	ND (0.30)
June 16 th ,2025	H-3	570	610
	Cs-134	ND (0.75)	ND (0.56)
June 10 th , 2025	Cs-137	ND (0.89)	ND (0.57)
*Discharged on	Gross β	ND (1.7)	ND (0.33)
June 15 th ,2025	H-3	580	610
	Cs-134	ND (0.81)	ND (0.64)
June 9 th , 2025	Cs-137	ND (0.63)	ND (0.57)
*Discharged on	Gross β	ND (0.69)	ND (0.30)
June 14 th ,2025	H-3	570	610
	Cs-134	ND (0.75)	ND (0.56)
June 8 th , 2025	Cs-137	ND (0.97)	ND (0.45)
*Discharged on	Gross β	ND (1.9)	ND (0.30)
June 13 th ,2025	H-3	440	460

	Cs-134	ND (0.93)	ND (0.70)
June 7 th , 2025	Cs-137	ND (0.78)	ND (0.60)
*Discharged on June 12 th ,2025	Gross β	ND (2.0)	ND (0.28)
June 12",2023	H-3	430	450
	Cs-134	ND (0.88)	ND (0.54)
June 6 th , 2025	Cs-137	ND (0.82)	ND (0.64)
*Discharged on June 11 th ,2025	Gross β	ND (1.8)	ND (0.34)
June 11",2025	H-3	460	480
	Cs-134	ND (0.75)	ND (0.61)
June 5 th , 2025	Cs-137	ND (0.78)	ND (0.51)
*Discharged on June 10 th ,2025	Gross β	ND (2.0)	ND (0.30)
June 10**,2025	H-3	490	510
	Cs-134	ND (0.58)	ND (0.54)
June 3 ^{rd,} 2025	Cs-137	ND (0.69)	ND (0.51)
*Discharged on	Gross β	ND (2.0)	ND (0.29)
June 8 th ,2025	H-3	660	700
	Cs-134	ND (0.73)	ND (0.59)
June 1 st , 2025	Cs-137	ND (0.82)	ND (0.72)
*Discharged on June 6 th ,2025	Gross β	ND (0.63)	ND (0.30)
	H-3	660	700
	Cs-134	ND (0.67)	ND (0.72)
May 31 st , 2025	Cs-137	ND (0.73)	ND (0.66)
*Discharged on June 5 th ,2025	Gross β	ND (1.8)	0.39
June 5**,2025	H-3	620	680
	Cs-134	ND (0.84)	ND (0.67)
May 30 th , 2025	Cs-137	ND (0.93)	ND (0.63)
*Discharged on	Gross β	ND (1.8)	ND (0.43)
June 4 th ,2025	H-3	640	680
	Cs-134	ND (0.81)	ND (0.60)
May 28 th , 2025	Cs-137	ND (0.63)	ND (0.51)
*Discharged on	Gross β	ND (1.7)	ND (0.43)
June 2 nd ,2025	H-3	720	760

^{* *} ND: represents a value below the detection limit; values in () represent the detection limit.

^{*} In order to ensure the results, third-party organizations have also conducted an analysis and verified the radiation level of the sampled water.

^{*} Third-party organization : Tohoku Ryokka Kankyohozen Co., Ltd

Result of detailed analyses conducted by TEPCO, JAEA, and Japan Chemical Analysis Center (In order to confirm the validity of analysis, the Government of Japan also requests JAEA; and TEPCO requests Japan Chemical Analysis Center to conduct independent analyses)

(Unit: Bq/L)

	Detected	Analytical body			
Date of sampling	npling nuclides	JAEA	TEPCO	Japan Chemical Analysis Center	
	Cs-134	ND (0.0029)	ND (0.0044)	ND (0.0058)	
	Cs-137	ND (0.0022)	ND (0.0037)	ND (0.0047)	
May 1 st ,2025	Gross α	ND (0.53)	ND (2.3)	ND (1.8)	
Way 1 ,2023	Gross β	ND (0.39)	ND (0.59)	ND (0.55)	
	H-3	670 ±1.5	640	660	
	Sr-90	ND (0.0012)	ND (0.0012)	ND (0.0052)	

^{*} ND: represents a value below the detection limit; values in () represent the detection limit.

(Reference) (Unit: Bq/L)

Radionuclides	Operational Targets	Density Limit specified by the Reactor Regulation	World Health Organization (WHO) Guidelines for Drinking Water Quality
Cs-134	1	60	10
Cs-137	1	90	10
Gross α	_	_	_
Gross β	3 (1) *	_	_
H-3	1,500	60,000	10,000
Sr-90	_	30	10

 $[\]divideontimes$ The operational target of Gross β is 1 Bq/L in the survey which is conducted once every ten days.

The reference table shows the values of operational targets before discharge. Since the values after discharge contain natural radioactive materials in seawater, there will be differences between the values and the operational targets values.

Results of analysis on the seawater sampled near the discharge point (North side of Units 5 and 6 discharge channel)

Date of sampling	Detected nuclides	Sampling point (South discharge channel)
	Cs-134	ND (0.78)
March 31 st , 2025 *Sampled before	Cs-137	ND (0.60)
discharge of purified groundwater.	Gross β	12
	H-3	0.39

Results of analyses on the water quality of the groundwater pumped up for bypassing at Fukushima Daiichi NPS (made available by TEPCO prior to discharge)

Date of sampling	Detected nuclides	Analytical body		
*Date of discharge		TEPCO	Third-party organization	
	Cs-134	ND (0.69)	ND (0.59)	
June 21 st , 2025	Cs-137	ND (0.45)	ND (0.63)	
*Discharged on June 27 th ,2025	Gross β	ND (0.67)	ND (0.29)	
	H-3	51	52	
	Cs-134	ND (0.93)	ND (0.64)	
June 13 th , 2025	Cs-137	ND (0.82)	ND (0.72)	
*Discharged on June 19 th ,2025	Gross β	ND (0.65)	ND (0.25)	
	H-3	56	55	
	Cs-134	ND (0.82)	ND (0.59)	
June 5 th , 2025	Cs-137	ND (0.57)	ND (0.62)	
*Discharged on June 11 th ,2025	Gross β	ND (0.67)	ND (0.31)	
	H-3	54	52	
	Cs-134	ND (0.58)	ND (0.56)	
May 27 th , 2025	Cs-137	ND (0.86)	ND (0.62)	
*Discharged on June 2 nd ,2025	Gross β	ND (0.59)	ND (0.39)	
	H-3	51	53	

^{* *} ND: represents a value below the detection limit; values in () represent the detection limit

^{*} In order to ensure the results, third-party organizations have also conducted an analysis and verified the radiation level of the sampled water.

^{*} Third-party organization: Tohoku Ryokka Kankyohozen Co., Ltd

Result of detailed analyses conducted by TEPCO, JAEA, and Japan Chemical Analysis Center (In order to confirm the validity of analysis, the Government of Japan also requests JAEA; and TEPCO requests Japan Chemical Analysis Center to conduct independent analyses)

(Unit: Bq/L)

		Analytical body			
Date of sampling Detected nuclide	Detected nuclides	JAEA	TEPCO	Japan Chemical Analysis Center	
	Cs-134	ND (0.0028)	ND (0.0063)	ND (0.0064)	
	Cs-137	ND (0.0020)	ND (0.0052)	ND (0.0051)	
11 ond 000	Gross α	ND (0.68)	ND (2.3)	ND (1.8)	
May 2 nd , 2025	Gross β	ND (0.38)	ND (0.68)	ND (0.61)	
	H-3	50 ±0.45	47	50	
	Sr-90	0.0014 ±0.00040	ND (0.0012)	ND (0.0052)	

^{*} ND: represents a value below the detection limit; values in () represent the detection limit.

(Reference) (Unit: Bq/L)

Radionuclides	Operational Targets	Density Limit specified by the Reactor Regulation	World Health Organization (WHO) Guidelines for Drinking Water Quality
Cs-134	1	60	10
Cs-137	1	90	10
Gross α	_	_	_
Gross β	5 (1) *	_	_
H-3	1,500	60,000	10,000
Sr-90	_	30	10

X The operational target of Gross β is 1 Bq/L in the survey which is conducted once every ten days.

The reference table shows the values of operational targets before discharge. Since the values after discharge contain natural radioactive materials in seawater, there will be differences between the values and the operational targets values.

Results of analyses on the seawater sampled near the discharge point (Around South Discharge Channel)

Date of sampling **conducted four times a year	Detected nuclides	Sampling point (South discharge channel)
March 13 th , 2025	Cs-134	ND (0.82)
	Cs-137	ND (0.90)
	Gross β	12
	H-3	ND (0.26)