

ALPS Treated Water Discharge Status Update

May 30, 2024



Tokyo Electric Power Company Holdings, Inc.

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- 1. Performance of the 5th discharge of ALPS treated water**
 - 2. Status of work for the 6th discharge of ALPS treated water**
 - 3. Transfer of ALPS treated water in preparation for the 7th and 8th discharges**
 - 4. Annual discharge volume regarding ALPS treated water discharge (FY2023)**
- (Reference) Sea area monitoring history after the commencement of discharge**

1. Performance of the 5th discharge of ALPS treated water

2. Status of work for the 6th discharge of ALPS treated water

3. Transfer of ALPS treated water in preparation for the 7th and 8th discharges

4. Annual discharge volume regarding ALPS treated water discharge (FY2023)

(Reference) Sea area monitoring history after the commencement of discharge

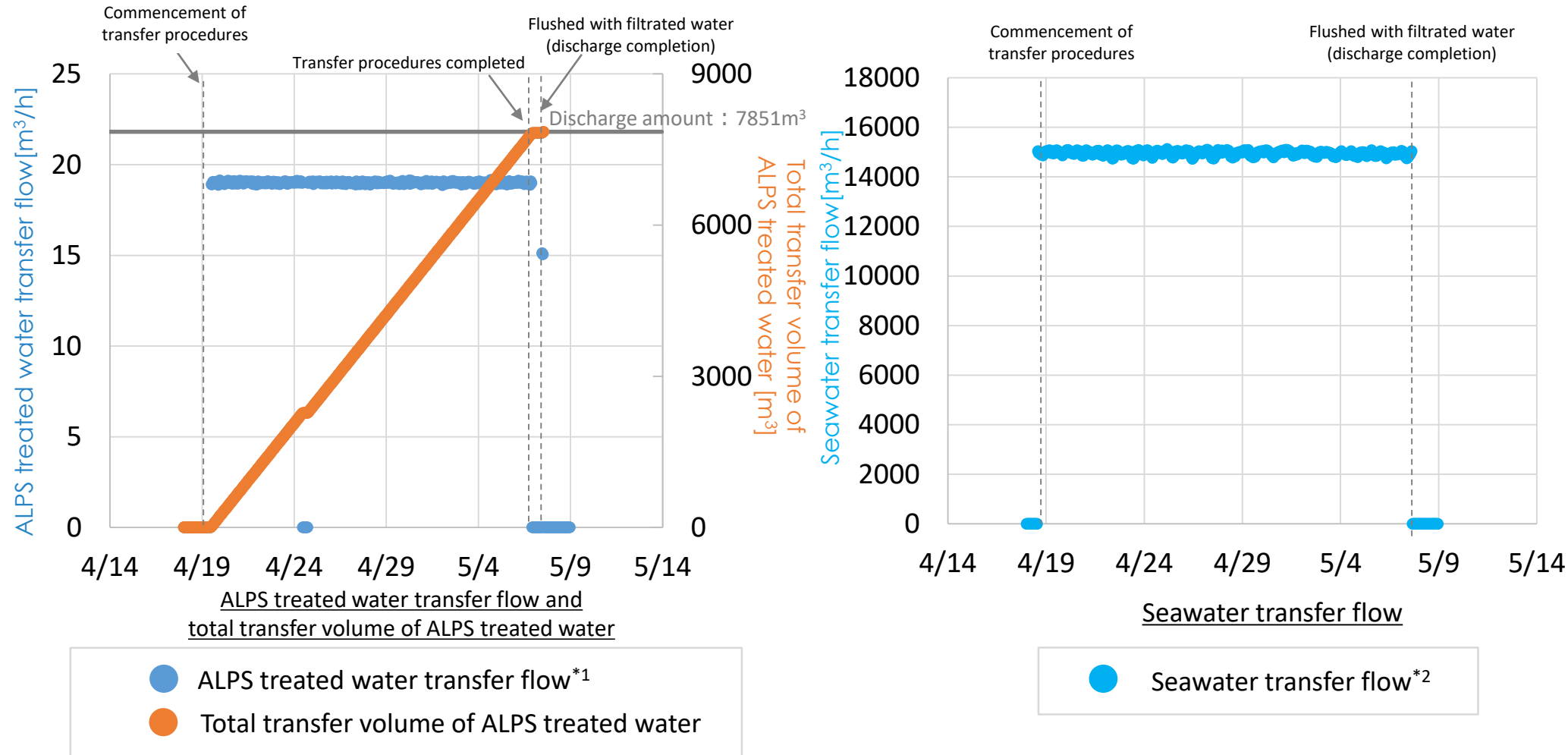
1. Overview

- We conducted the fifth discharge of ALPS treated water (management number: 24-1-5) as follows.
- In this report, we will explain that there was no abnormality in parameters and sea area monitoring.

Tank group	Tritium concentration	Commenced	Completed	Amount of discharge	Amount of tritium radioactivity
Group C	19 x 10 ⁴ Bq/liter	April 19, 2024	May 7, 2024	7,851m ³	Approx. 1.5 trillion Bq

1-1. Operating parameter records during the discharge (1/3)

■ We were able to operate ALPS treated water transfer systems and seawater systems without issue.

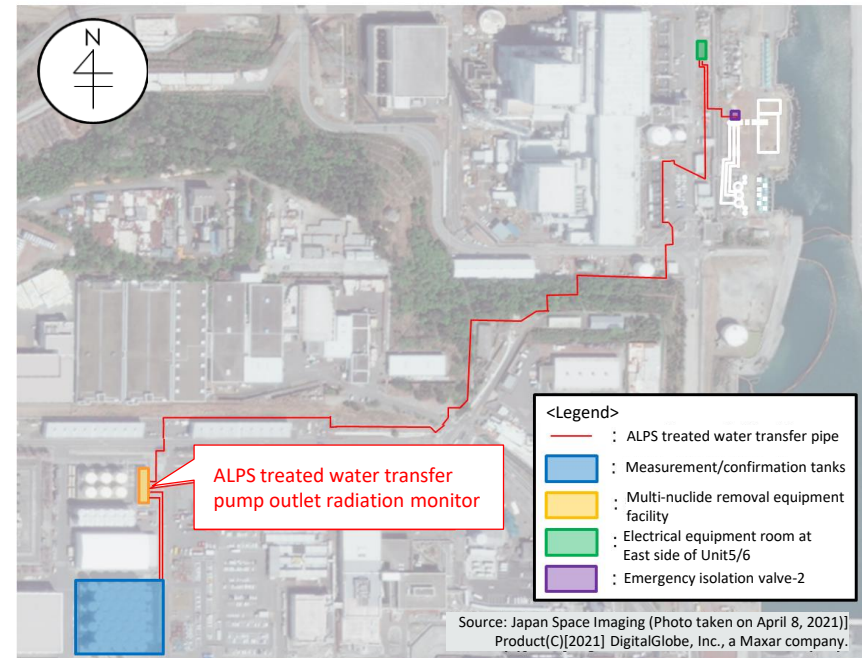
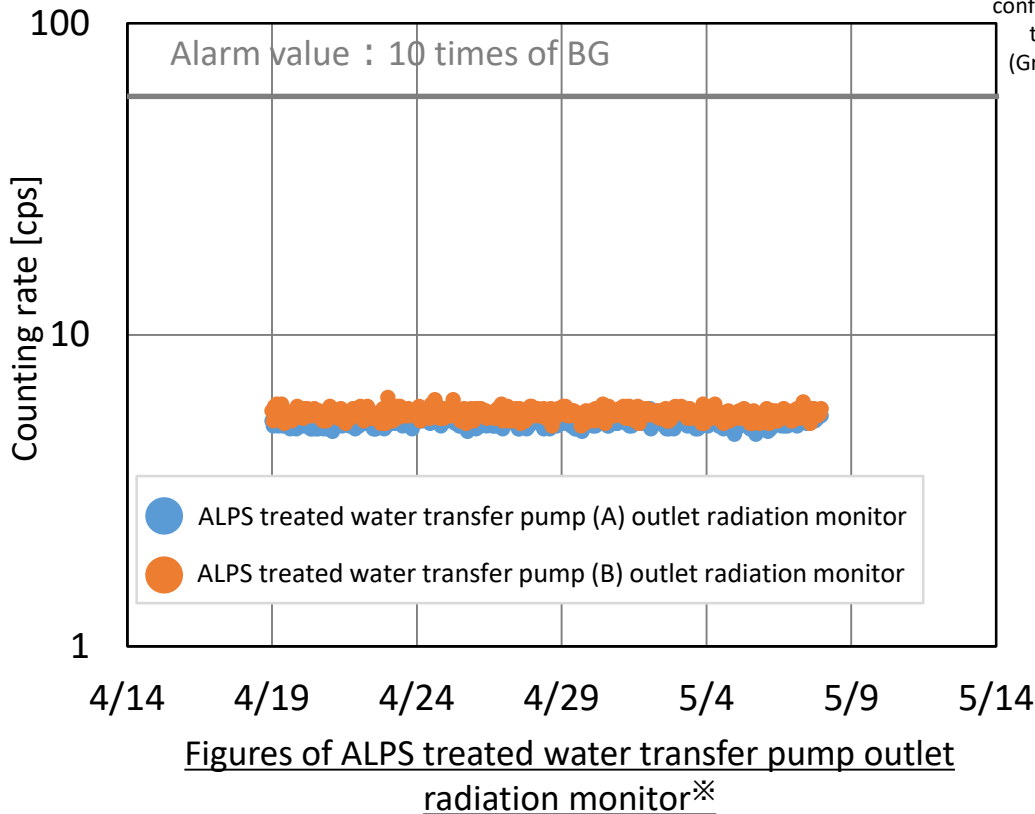
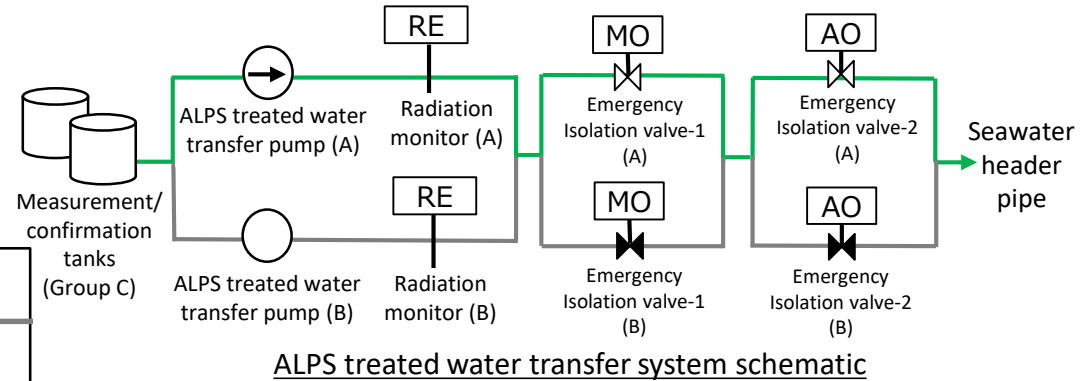


*1 : The flowmeters are reduplicate, so the higher of the figures from both meters was used.

*2 : Total for systems A and B

1-1. Operating parameter records during the discharge (2/3)

■ No abnormalities were seen in the figures from the ALPS treated water transfer pump outlet radiation monitor.

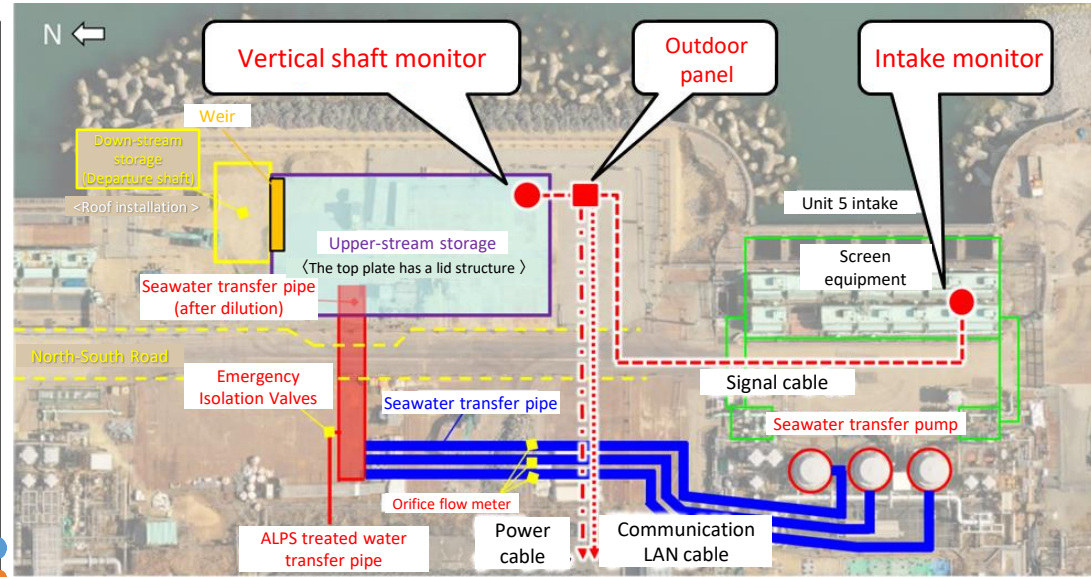
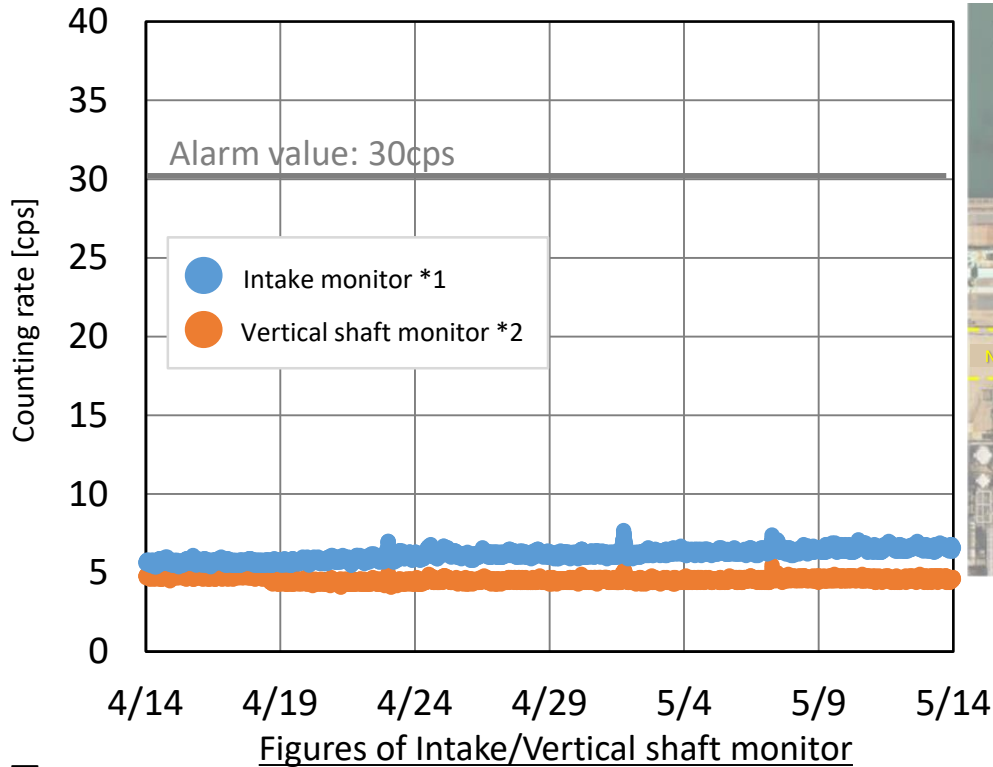


※ : As shown in the schematic on the upper right, ALPS treated water was passed through System A.
(System B was filled with filtrated water)

Overview of ALPS treated water dilution/discharge facility

1-1. Operating parameter records during the discharge (3/3)

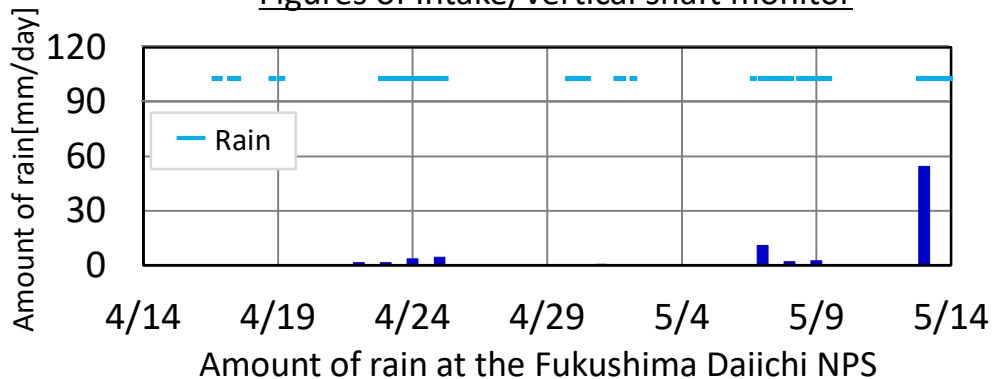
Temporary increase in values, possibly due to rain was observed, but no abnormalities were seen in the readings.



*1: The increase in intake monitor readings (●) is assumed to be due to Cs-137 that contained in soil and marine organisms.

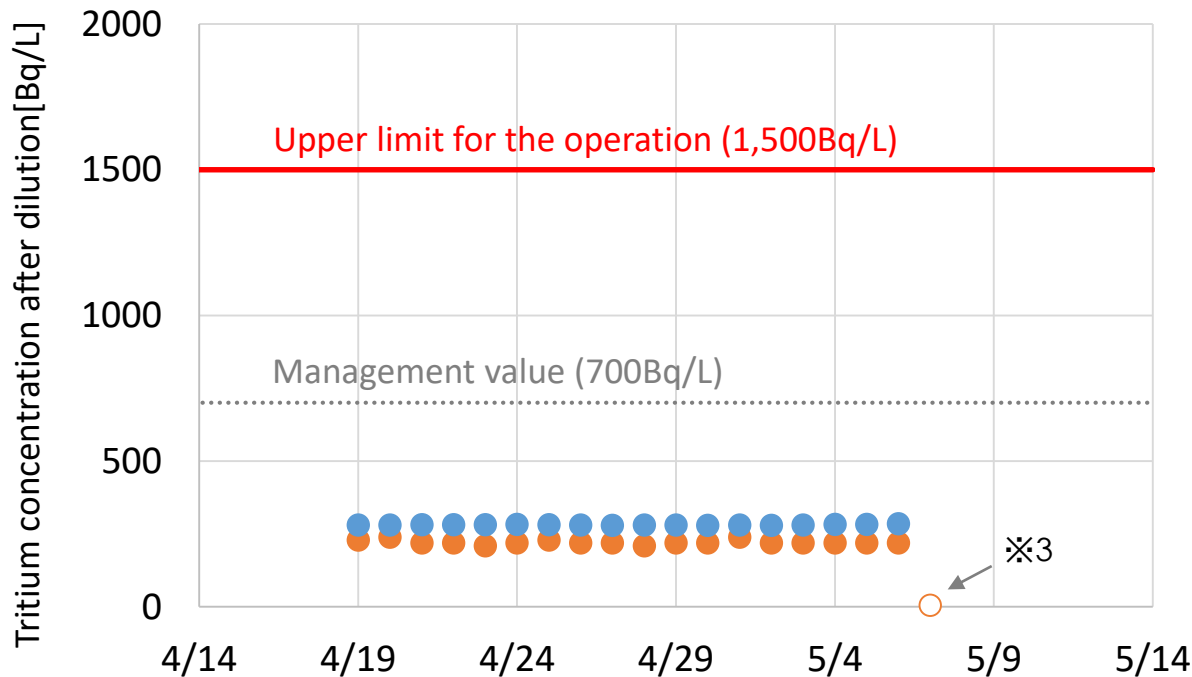
*2: The slight decrease in vertical shaft monitor readings (●) since April 18 is assumed to be due to the rise in water level in the upper-stream storage caused by the activation of seawater transfer pump (which thereby enhanced the shielding effect of water against radiation exposure from the surrounding area).

※It is assumed that the temporary increases during rainfall were caused by the runoff of fallout from onshore areas and precipitation of natural radionuclides (such as daughter nuclide of radon, etc.).



1-2. Tritium concentrations after dilution during the discharge **TEPCO**

- During the discharge period, water was sampled daily from the seawater pipe to analyze tritium concentrations.
⇒ Confirmed to be less than the upper limit for the operation: 1,500Bq/liter



- Calculated values^{※1}
- Analysis values(Detected values)

※1 : Calculated using the following formula
(Uncertainty has been considered for each parameter)

Tritium concentrations after dilution (Calculated values)

$$= \frac{\text{Tritium concentrations in ALPS treated water}^{\text{※2}} \times \text{ALPS treated water transfer flow}}{\text{Seawater transfer flow} + \text{ALPS treated water transfer flow}}$$

※2 : Analysis values at measurement/confirmation tanks

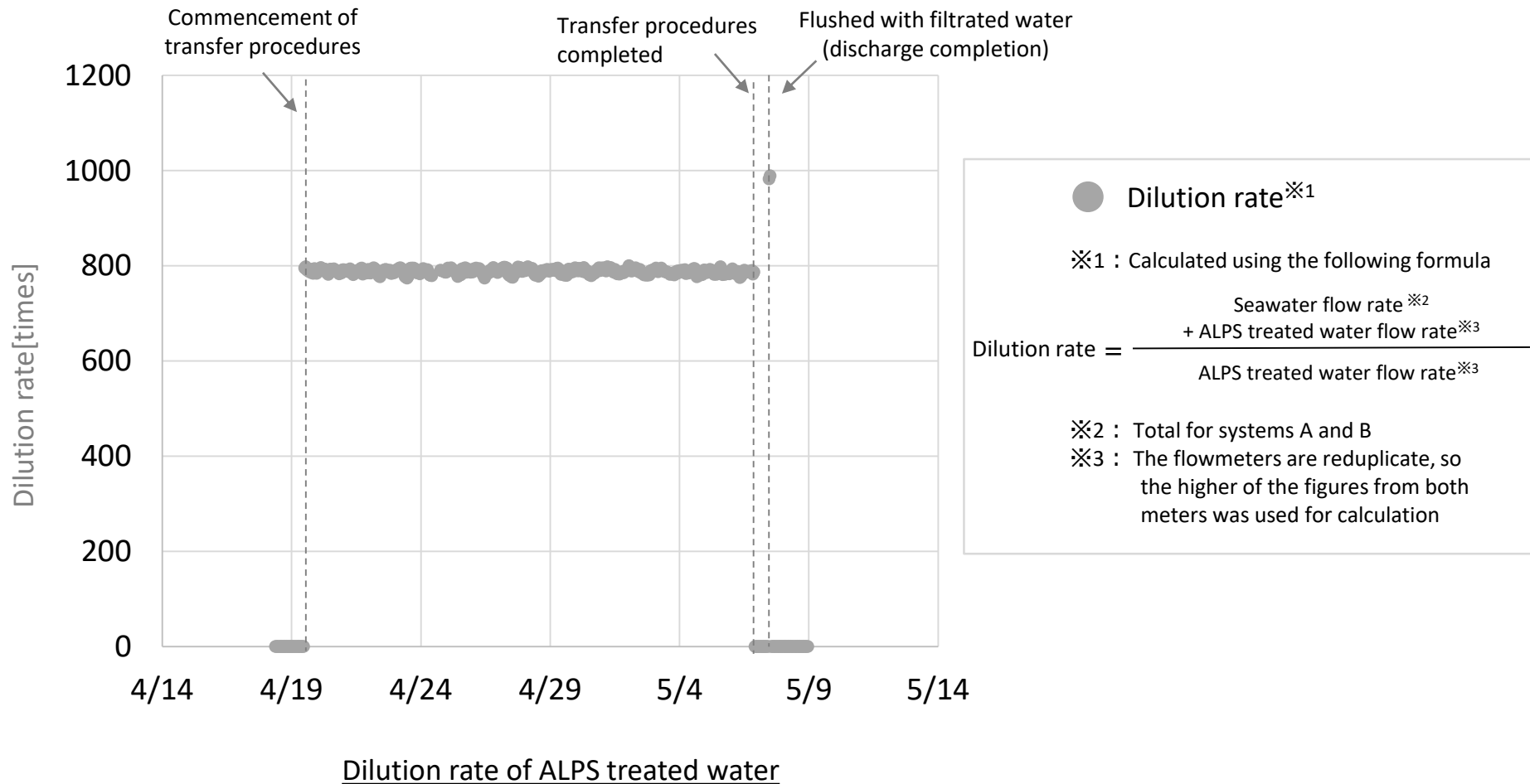
※3 : No calculated values since the pipes were flushed out with filtrated water. The work records are as follows.

Tritium concentrations after dilution (calculated values and analysis values)

	4/19	4/20~5/6	5/7
Calculated value: Time of data acquisition	14:00	7:00	12:00
Analysis value: Time of specimen sampling	14:13	7:00~10:00	12:02

[Reference] Dilution rate of ALPS treated water

- The dilution rate had always been kept at over 100 times during the discharge.



[Reference] Total radioactivity of nuclides to be measured and assessed (29 nuclides)



- The following chart shows the total radioactivity (Bq) for nuclides to be measured and assessed (29 nuclides) during the fifth discharge (Management number: 24-1-5). (Calculated from analysis values^{※1} (Bq/liter) and discharge volume (7,851m³) for each nuclide)

※1: It was confirmed that the sum of the ratios of legally required concentrations of the nuclides targeted for measurement/assessment is 0.31 and less than 1.

- The total radioactivity from nuclides for which analysis values were below detection limit (ND) have not been included.

Nuclide	Analysis value [Bq/liter]	Total radioactivity [Bq]	Nuclide	Analysis value [Bq/liter]	Total radioactivity [Bq]	Nuclide	Analysis value [Bq/liter]	Total radioactivity [Bq]
C-14	1.6E+01	1.3E+08	Sb-125	9.7E-02	7.6E+05	U-234 ^{※3}	<2.2E-02	—
Mn-54	<2.9E-02	—	Te-125m ^{※2}	3.6E-02	2.8E+05	U-238 ^{※3}	<2.2E-02	—
Fe-55	<1.5E+01	—	I-129	2.3E+00	1.8E+07	Np-237 ^{※3}	<2.2E-02	—
Co-60	4.1E-01	3.2E+06	Cs-134	<3.2E-02	—	Pu-238 ^{※3}	<2.2E-02	—
Ni-63	<9.2E+00	—	Cs-137	3.9E-01	3.1E+06	Pu-239 ^{※3}	<2.2E-02	—
Se-79	<1.1E+00	—	Ce-144	<3.8E-01	—	Pu-240 ^{※3}	<2.2E-02	—
Sr-90	3.9E-01	3.1E+06	Pm-147 ^{※2}	<3.5E-01	—	Pu-241 ^{※2}	<5.9E-01	—
Y-90 ^{※2}	3.9E-01	3.1E+06	Sm-151 ^{※2}	<1.3E-02	—	Am-241 ^{※3}	<2.2E-02	—
Tc-99	3.5E+00	2.7E+07	Eu-154	<7.8E-02	—	Cm-244 ^{※3}	<2.2E-02	—
Ru-106	<2.4E-01	—	Eu-155	<3.1E-01	—			

※2 Analysis values were assessed with radioactive equilibrium

※3 Gross Alpha measurements

1. Performance of the 5th discharge of ALPS treated water

2. Status of work for the 6th discharge of ALPS treated water

3. Transfer of ALPS treated water in preparation for the 7th and 8th discharges

4. Annual discharge volume regarding ALPS treated water discharge (FY2023)

(Reference) Sea area monitoring history after the commencement of discharge

2-1. Outline of the 6th discharge

(Management Number: 24-2-6)

Outline of discharge for group K4-A

Attributes of the treated water	Concentration of the 29 types of radionuclides (excluding tritium) in scope of measurement/evaluation	Within regulatory requirements (sum of the ratios of legally required concentrations of radioactive substances is less than 1) (sum of the ratios of concentration: 0.17) <small>(details on p1 of the link)</small>	
	Tritium concentration	17 x 10 ⁴ Bq/liter <small>(details on p2 of the link)</small>	
	Concentration of the 39 significant types of radionuclides measured voluntarily	No significant radionuclides identified <small>(details on p3 of the link)</small>	
	Status of water quality assessment	Within government and prefectural requirements <small>(details on p4 of the link)</small>	
	Water temperature	Same as outdoor temperature. After diluted to 740 times (design dilution factor), same as sea water temperature (not the same as plant's thermal discharge)	
Expected volume of treated water discharge	Approximately 7,800m ³		
Treated water flow rate	Approximately 460m ³ /day (set not to exceed designed maximum on 500m ³ /day)		
Dilution sea water flow rate	Approximately 340,000m ³ /day (same speed as walking in the tunnel [approximated 1m/second])		
Concentration of tritium after dilution	Approximately 230 Bq/liter		
Term of discharge	Approximately 17 days (May 17, 2024 – June 4, 2024)		

2-1. Analysis Results of ALPS Treated Water in the Measurement/Confirmation Tanks

(Management number: 24-2-6)

- Pre-discharge analysis results for the samples taken from the measurement/confirmation tank (Group A) on March 25, 2024, were obtained. It was confirmed that the water satisfies discharge requirements (Table 1. Disclosed on May 15, 2024).
 - Item 1: For 29 nuclides to be measured and assessed, the sum of the ratios of the concentration of each radionuclide to the regulatory concentration is 0.17, and it is confirmed to be less than 1.
 - Item 2: Analysis results of tritium concentration is 17 x 10⁴ Bq/liter, and it is confirmed to be less than 1 million Bq/liter.
 - Item 1/2: The external agency consigned by TEPCO (Kaken) and the third-party consigned by the Japanese Government (JAEA)*¹ obtained the same results from their analyses.
 - Item 3/4: It was confirmed that operational targets have been satisfied.

*1 ALPS treated water third-party analysis
https://fukushima.jaea.go.jp/okuma/alps/index_e.html

Table 1 . Pre-discharge analysis results of water in the measurement/confirmation tank (Management number: 24-2-6)

Items		Requirement basis	Operational Target	Analysis Results
①	Nuclide to be measured and assessed (29 nuclides)	Implementation plan	The sum of the ratios of the concentration of each radionuclide to the regulatory concentration, except for tritium, is less than 1	0.17 (< 1)
②	Tritium		Tritium concentration is less than 1 million Bq/liter	17 x 10⁴Bq/liter (less than 1 million Bq/liter)
③	Nuclides voluntarily checked to ensure that they are not significantly present (39 nuclides)	Voluntary	No significant concentrations were found of any of the nuclides	None of the nuclides are present in significant consternation
④	General water quality: 44 criteria		Pre-check of water quality standards* ²	All criteria satisfied

*2 Water sampled from the discharge vertical shaft (upper-stream storage) once a year to confirm that legal requirements are being satisfied

2-1. Pre-discharge Analysis Results of ALPS Treated Water

in the Measurement/Confirmation Tanks (Management number: 24-2-6) (1/4)



- For 29 nuclides to be measured and assessed, the sum of the ratios of the concentration of each radionuclide to the regulatory concentration is 0.17, and it is confirmed to be less than 1.

Pre-discharge Analysis Results of ALPS Treated Water in the Measurement/Confirmation Tanks (1/4)

Sample Name	ALPS Treated Water in the Measurement/Confirmation Tanks		Group A	Summary	Nuclides to be measured and assessed (29 nuclides) : The sum of the ratios of the concentration of each radionuclide to the regulatory concentration		0.17 (Confirmed to be less than 1)	
Date and Time of Sampling	March 25, 2024	10:05						
Storage Volume (m ³)	8957							

Radioactivity Analysis: Nuclides to be measured and assessed (29 nuclides)												
No.	Nuclide	Analysis Results						Ratios to Regulatory Concentration Limit		Regulatory Concentration Limit *2 (Bq/L)	Analysis Method *4	
		TEPCO			KAKEN Co.,Ltd.			TEPCO	KAKEN Co.,Ltd.			
		Analysis Value (Bq/L)	Uncertainty *1 (Bq/L)	Detection Limit (Bq/L)	Analysis Value (Bq/L)	Uncertainty *1 (Bq/L)	Detection Limit (Bq/L)					
1	C-14	1.3E+01	± 1.8E+00	1.6E+00	1.2E+01	± 9.2E-01	9.8E-01	6.7E-03	6.0E-03	2000	Measurement	
2	Mn-54	ND	—	2.4E-02	ND	—	1.7E-02	less than 2.4E-05	less than 1.7E-05	1000	Measurement	
3	Fe-55	ND	—	1.6E+01	ND	—	1.2E+01	less than 7.9E-03	less than 6.1E-03	2000	Measurement	
4	Co-60	3.0E-01	± 5.8E-02	2.5E-02	2.7E-01	± 3.9E-02	2.1E-02	1.5E-03	1.3E-03	200	Measurement	
5	Ni-63	ND	—	8.9E+00	ND	—	6.1E+00	less than 1.5E-03	less than 1.0E-03	6000	Measurement	
6	Se-79	ND	—	1.3E+00	ND	—	8.2E-01	less than 6.4E-03	less than 4.1E-03	200	Measurement	
7	Sr-90	2.8E-01	± 2.3E-02	3.6E-02	2.3E-01	± 3.3E-02	3.3E-02	9.2E-03	7.8E-03	30	Measurement	
8	Y-90	2.8E-01	—	3.6E-02	2.3E-01	—	3.3E-02	9.2E-04	7.8E-04	30	Sr-90/Y-90 Radioactive Equilibrium Assessment	
9	Tc-99	5.5E-01	± 1.5E-01	1.9E-01	6.6E-01	± 1.4E-01	6.3E-02	5.5E-04	6.6E-04	1000	Measurement	
10	Ru-106	ND	—	2.6E-01	ND	—	1.8E-01	less than 2.6E-03	less than 1.8E-03	100	Measurement	
11	Sb-125	1.4E-01	± 7.0E-02	9.7E-02	ND	—	7.9E-02	less than 6.4E-03	less than 9.8E-05	800	Measurement	
12	Te-125m	5.2E-02	—	3.6E-02	ND	—	2.9E-02	5.8E-05	less than 3.2E-05	900	Sb-125/Te-125m Radioactive Equilibrium Assessment	
13	I-129	1.0E+00	± 5.5E-02	5.5E-02	1.0E+00	± 1.1E-01	6.5E-02	1.1E-01	1.2E-01	9	Measurement	
14	Cs-134	ND	—	3.0E-02	ND	—	2.2E-02	less than 5.1E-04	less than 3.6E-04	60	Measurement	
15	Cs-137	3.0E-01	± 5.8E-02	3.2E-01	2.9E-01	± 4.0E-02	2.2E-02	3.3E-03	3.2E-03	90	Measurement	
16	Ce-144	ND	—	5.1E-01	ND	—	3.0E-01	less than 2.6E-03	less than 1.5E-03	200	Measurement	
17	Pm-147	ND	—	3.3E-01	ND	—	2.3E-01	less than 1.1E-04	less than 7.6E-05	3000	Eu-154 Relative Ratio Assessment	
18	Sm-152	ND	—	1.3E-02	ND	—	8.7E-03	less than 1.6E-06	less than 1.1E-06	8000	Eu-154 Relative Ratio Assessment	
19	Eu-154	ND	—	7.4E-02	ND	—	5.1E-02	less than 1.9E-04	less than 1.3E-04	400	Measurement	
20	Eu-155	ND	—	2.1E-01	ND	—	1.6E-01	less than 7.0E-05	less than 5.5E-05	3000	Measurement	
21	U-234									20	Gross Alpha	
22	U-238									20	Gross Alpha	
23	Np-237									9	Gross Alpha	
24	Pu-238	ND	—	2.5E-02	ND	—	2.3E-02	less than 6.3E-03	less than 5.9E-03	4	Gross Alpha	
25	Pu-239									4	Gross Alpha	
26	Pu-240							*3	*3	4	Gross Alpha	
27	Am-241									5	Gross Alpha	
28	Cm-244									7	Gross Alpha	
29	Pu-241	ND	—	7.0E-01	ND	—	6.4E-01	less than 3.5E-03	less than 3.2E-03	200	Pu-238 Relative Ratio Assessment	
The sum of the ratios of the concentration of each radionuclide to the regulatory concentration (sum of the ratios to regulatory concentration limit)								less than 1.7E-01	less than 1.6E-01			

Nuclides to be measured and assessed (29 nuclides)

Analysis results of radioactivity (Bq/liter)

Ratios to Regulatory Concentration Limit

* ND indicates that analysis result is less than the detection limit.
 * Values are expressed in exponential notation.
 For example, "3.1E+01" means "3.1×10¹" and equals 31. Similarly, "3.1E+00" means "3.1×10⁰" and equals 3.1, and "3.1E-01" means "3.1×10⁻¹" and equals 0.31.
 *1 "Uncertainty" refers to the accuracy of analysis data.
 "Uncertainty" is calculated using "Expanded Uncertainty: Coverage Factor k=2".
 *2 Regulatory concentration limits stipulated in the Regulations of the Safety and Physical Protection of Specific Nuclear Fuel Material at Fukushima Daiichi Nuclear Power Station of the Tokyo Electric Power Company, Incorporated.
 (Attached Chart 1, Row 6: Concentration limits in the water outside of the environmental monitoring area [in this chart Bq/cm³ has been converted into Bq/L])
 *3 The ratio to regulatory concentration limit for alpha-radionuclides has been assessed using the lowest regulatory concentration limit for all the target nuclides.
 *4 Analysis methods are as follows:
 Measurement - The concentrations of each radionuclide have been calculated by directly measuring/analyzing radioactivity intensity and the quantity of the element.
 Gross Alpha - The total amount of alpha-radionuclides in the specimen are calculated by directly measuring alpha rays.
 Radioactive Equilibrium Assessment - Calculated using a physical phenomenon in which the amount of radioactivity of one radionuclide and another radionuclide produced by the decay of that radionuclide exist in a certain ratio.
 Relative Ratio Assessment - Calculated based on the assessment values of radionuclides that existed inside the reactor while considering radionuclide decay and migration into ALPS treated water.

2-1. Pre-discharge Analysis Results of ALPS Treated Water

in the Measurement/Confirmation Tanks (Management number: 24-2-6) (2/4)

- Analysis results of tritium concentration is 17×10^4 Bq/liter.

Tritium Concentration
(Bq/liter)

Pre-discharge Analysis Results of ALPS Treated Water in the Measurement/Confirmation Tanks (2/4)

Summary							17×10^4 Bq/L (confirmed to be less than 1 million Bq/L)		
Radioactivity Analysis: Tritium									
No.	Nuclide	Analysis Results						Analysis Objective	Analysis Method *3
		TEPCO			KAKEN Co.,Ltd.				
		Analysis Value (Bq/L)	Uncertainty *1 (Bq/L)	Detection Limit (Bq/L)	Analysis Value (Bq/L)	Uncertainty *1 (Bq/L)	Detection Limit (Bq/L)		
1	H-3	1.7E+05	± 9.3E+03	1.8E+01	1.7E+05	± 1.2E+04	2.4E+01	*2	Measurement

* Values are expressed in exponential notation.
 For example, "3.1E+01" means "3.1×10¹" and equals 31. Similarly, "3.1E+00" means "3.1×10⁰" and equals 3.1, and "3.1E-01" means "3.1×10⁻¹" and equals 0.31.

*1 "Uncertainty" refers to the accuracy of analysis data.
 "Uncertainty" is calculated using "Expanded Uncertainty: Coverage Factor k=2".

*2 To confirm that the tritium concentration is less than 1E+06Bq/liter (less than 1 million Bq/liter), the maximum concentration stipulated in the implementation plan, ensuring that the tritium concentration after dilution is less than 1,500 Bq/liter.

*3 Analysis method is as follows:
 Measurement - The concentration of radionuclide has been calculated by directly measuring/analyzing radioactivity intensity and the quantity of the element.

※Excerpt from Treated Water Portal Site

2-1. Pre-discharge Analysis Results of ALPS Treated Water

in the Measurement/Confirmation Tanks (Management number: 24-2-6) (3/4)

- We voluntarily checked that the nuclides (39 nuclides) are not significantly present. We confirmed that all the 39 nuclides are not significantly present.

Pre-discharge Analysis Results of ALPS Treated Water in the Measurement/Confirmation Tanks (3/4)

Summary No significant concentrations found of any of the nuclides

Radioactivity Analysis: Nuclides voluntarily checked to ensure that they are not significantly present (39 nuclides)

No.	Nuclide	TEPCO		KAKEN Co.,Ltd.		Confirmation Method *2
		Assessment *1	Detection Limit (Bq/L)	Assessment *1	Detection Limit (Bq/L)	
1	Fe-59	○	4.6E-02	○	6.0E-02	Measurement
2	Co-58	○	2.5E-02	○	1.7E-02	
3	Zn-65	○	4.6E-02	○	5.0E-02	
4	Rb-86	○	3.0E-01	○	2.8E-01	
5	Sr-89	○	5.4E-02	○	4.3E-02	
6	Y-91	○	2.7E+00	○	1.9E+00	
7	Nb-95	○	3.4E-02	○	2.0E-02	
8	Ru-103	○	3.4E-02	○	2.9E-02	
9	Ag-110m	○	2.5E-02	○	1.9E-02	
10	Cd-113m	○	8.6E-02	○	3.0E-02	
11	Cd-115m	○	1.2E+00	○	1.1E+00	
12	Sn-123	○	1.1E-01	○	9.3E-01	
13	Sn-126	○	1.7E-01	○	1.0E-01	
14	Sb-124	○	5.1E-02	○	4.7E-02	
15	Te-123m	○	5.7E-02	○	4.2E-02	
16	Te-127	○	8.0E-01	○	6.1E-01	
17	Te-129m	○	7.6E-01	○	4.4E-01	
18	Te-129	○	3.6E-01	○	5.9E-01	
19	Cs-136	○	2.3E-02	○	2.5E-02	
20	Ba-140	○	9.7E-02	○	1.4E-01	
21	Ce-141	○	1.1E-01	○	8.6E-02	
22	Pm-146	○	4.6E-02	○	3.4E-02	
23	Pm-148m	○	7.5E-02	○	2.4E-02	
24	Pm-148	○	1.2E-01	○	2.2E-01	
25	Eu-152	○	1.3E-01	○	9.9E-02	
26	Gd-153	○	1.7E-01	○	1.2E-01	
27	Tb-160	○	7.7E-02	○	6.3E-02	
28	Am-243	○	2.5E-02	○	7.3E-02	
29	Cm-242	○	2.5E-02	○	2.3E-02	
30	Cm-243	○	2.5E-02	○	2.3E-02	
31	Rh-103m	○	3.4E-02	○	2.8E-02	Rh-103m Radioactive Equilibrium Assessment
32	Rh-106	○	2.6E-01	○	1.8E-01	Rh-106/Rh-103m Radioactive Equilibrium Assessment
33	Sn-119m	○	6.3E-03	○	3.8E-03	Sn-126 Relative Ratio Assessment
34	Te-127m	○	8.1E-01	○	6.3E-01	Te-127 Relative Ratio Assessment
35	Cs-135	○	2.3E-07	○	1.5E-07	Cs-137 Relative Ratio Assessment
36	Ba-137m	○	3.3E-02	○	2.1E-02	Cs-137/Ba-137m Radioactive Equilibrium Assessment
37	Pr-144m	○	7.8E-03	○	4.6E-03	Ce-144/Pr-144m Radioactive Equilibrium Assessment
38	Pr-144	○	5.1E-01	○	3.0E-01	Ce-144/Pr-144 Radioactive Equilibrium Assessment
39	Am-242m	○	1.7E-04	○	1.6E-04	Am-241 Relative Ratio Assessment

*1 "○" indicates that the absence of significant concentrations was confirmed by the following, and "×" indicates that significant concentrations of nuclide was confirmed.

- Concentration of nuclide measured was below detection limit

- For nuclide that has been assessed using radioactive equilibrium, etc., if its target nuclide is detected and the assessment value of the target nuclide is extremely small compared to the regulatory concentration limit, or in other words, if it is less than 1/100 of the regulatory concentration limit which is the value set as the detection limit, then it shall be deemed to be below the detection limit.

Nuclide	Assessment Values (Bq/L)		Regulatory Concentration Limit
	TEPCO	KAKEN Co.,Ltd.	
Rh-103m	—	—	2.0E+05
Rh-106	—	—	3.0E+05
Sn-119m	—	—	2.0E+03
Te-127m	—	—	3.0E+02
Cs-135	2.0E-06	1.9E-06	6.0E+02
Ba-137m	2.8E-01	2.7E-01	8.0E+05
Pr-144m	—	—	4.0E+04
Pr-144	—	—	2.0E+04
Am-242m	—	—	5.0E+00

- A hyphen "—" indicates that the concentration of the target nuclide was below the detection limit.

- Values are expressed in exponential notation.

For example, "3.1E+01" means "3.1×10¹" and equals 31. Similarly, "3.1E+00" means "3.1×10⁰" and equals 3.1, and "3.1E-01" means "3.1×10⁻¹" and equals 0.31.

*2 Analysis Methods are as follows:

Measurement - The concentrations of each radionuclide have been calculated by directly measuring/analyzing radioactivity intensity and the quantity of the element.

Measurement (substituted with gross alpha) - The total amount of alpha-radionuclides in the specimen are calculated by directly measuring alpha rays.

Radioactive Equilibrium Assessment - Calculated using a physical phenomenon in which the amount of radioactivity of one radionuclide and another radionuclide produced by the decay of that radionuclide exist in a certain ratio.

Relative Ratio Assessment - Calculated based on the assessment values of radionuclides that existed inside the reactor while considering radionuclide decay and migration into ALPS treated water.

*3 Regulatory concentration limits stipulated in the Regulations of the Safety and Physical Protection of Specific Nuclear Fuel Material

at Fukushima Daiichi Nuclear Power Station of the Tokyo Electric Power Company, Incorporated.

(Attached Chart 1, Row 6: Concentration limits in the water outside of the environmental monitoring area [in this chart Bq/cm³ has been converted into Bq/L])

※Excerpt from Treated Water Portal Site

Nuclides voluntarily checked to ensure that they are not significantly present (39 nuclides)

Assessment results

- : absence of significant concentration was confirmed
- × : significant concentration was confirmed

2-1. Pre-discharge Analysis Results of ALPS Treated Water

in the Measurement/Confirmation Tanks (Management number: 24-2-6) (4/4)

- For 44 general water quality measurement items (voluntary check to confirm that there are no unusual water quality), **it is confirmed that all criteria^{※1} satisfied.**

※1: In accordance with Fukushima Prefecture's "Ordinance on Discharge Standards Based on the Air Pollution Control Act and Wastewater Standard based on the Water Pollution Prevention Act (attached Chart 2)", and "the Ordinance Enforcement Regulations Pertaining to the Preservation of the Living Environment in Fukushima (attached Chart 5)".

General water quality measurement items (44 criteria)

Analysis results

Pre-discharge Analysis Results of ALPS Treated Water in the Measurement/Confirmation Tanks (4/4)

Summary	Criteria satisfied
---------	--------------------

General Water Quality Analysis: Voluntary check to confirm that there are no unusual water quality (44 criteria)

No.	Measurement Items	Unit	Analysis Result	Criteria *1
1	Hydrogen Ions (pH)	-	8.8	Sea Area 5.0~9.0
2	Suspended Solids (SS)	mg/L	1	Maximum: 70 or less Average: 50 or less
3	Chemical Oxygen Demand (COD)	mg/L	1.9	Maximum: 40 or less Average: 30 or less
4	Boron	mg/L	0.5	Sea Area 230 or less
5	Soluble Iron	mg/L	<1	10 or less
6	Copper	mg/L	<0.1	2 or less
7	Nickel	mg/L	<0.1	2 or less
8	Chrome	mg/L	<0.1	2 or less
9	Zinc	mg/L	<0.1	2 or less
10	Biochemical Oxygen Demand (BOD)	mg/L	2	Maximum: 40 or less Average: 30 or less
11	Coliform Count	pcs/cm ³	0	3000 or less
12	Cadmium	mg/L	<0.01	0.03 or less
13	Cyanide	mg/L	<0.05	0.5 or less
14	Organic Phosphorus	mg/L	<0.1	1 or less
15	Lead	mg/L	<0.01	0.1 or less
16	Hexavalent Chromium	mg/L	<0.05	0.2 or less
17	Arsenic	mg/L	<0.01	0.1 or less
18	Mercury	mg/L	<0.0005	0.005 or less
19	Alkyl Mercury	mg/L	<0.0005	Not Detected *2
20	Polychlorinated Biphenyl	mg/L	<0.0005	0.003 or less
21	Trichloroethylene	mg/L	<0.03	0.1 or less
22	Tetrachloroethylene	mg/L	<0.01	0.1 or less
23	Dichloromethane	mg/L	<0.02	0.2 or less
24	Carbon Tetrachloride	mg/L	<0.002	0.02 or less

25	1,2-Dichloroethane	mg/L	<0.004	0.04 or less
26	1,1-Dichloroethylene	mg/L	<0.1	1 or less
27	Cis-1,2-Dichloroethylene	mg/L	<0.04	0.4 or less
28	1,1,1-Trichloroethane	mg/L	<0.3	3 or less
29	1,1,2-Trichloroethane	mg/L	<0.006	0.06 or less
30	1,3-Dichloropropene	mg/L	<0.002	0.02 or less
31	Thiuram	mg/L	<0.006	0.06 or less
32	Simazine	mg/L	<0.003	0.03 or less
33	Thiobencarb	mg/L	<0.02	0.2 or less
34	Benzene	mg/L	<0.01	0.1 or less
35	Selenium	mg/L	<0.01	0.1 or less
36	Fenitrothion	mg/L	<0.003	0.03 or less
37	Phenols	mg/L	<0.1	1 or less
38	Fluorine	mg/L	<0.5	Sea Area 10 or less
39	Soluble Manganese	mg/L	<1	10 or less
40	Ammonia, Ammonium Compounds	mg/L	<1	100 or less
41	Nitrite Compounds and Nitrate Compounds	mg/L	7	
42	1,4-Dioxane	mg/L	<0.05	0.5 or less
43	n-Hexane Extractables (Mineral Oils)	mg/L	<0.5	1 or less
44	n-Hexane Extractables (Animal and Vegetable Oils and Fats)	mg/L	<1	10 or less

* A "less than" symbol (<) indicates that the quantity is below quantitation limit.

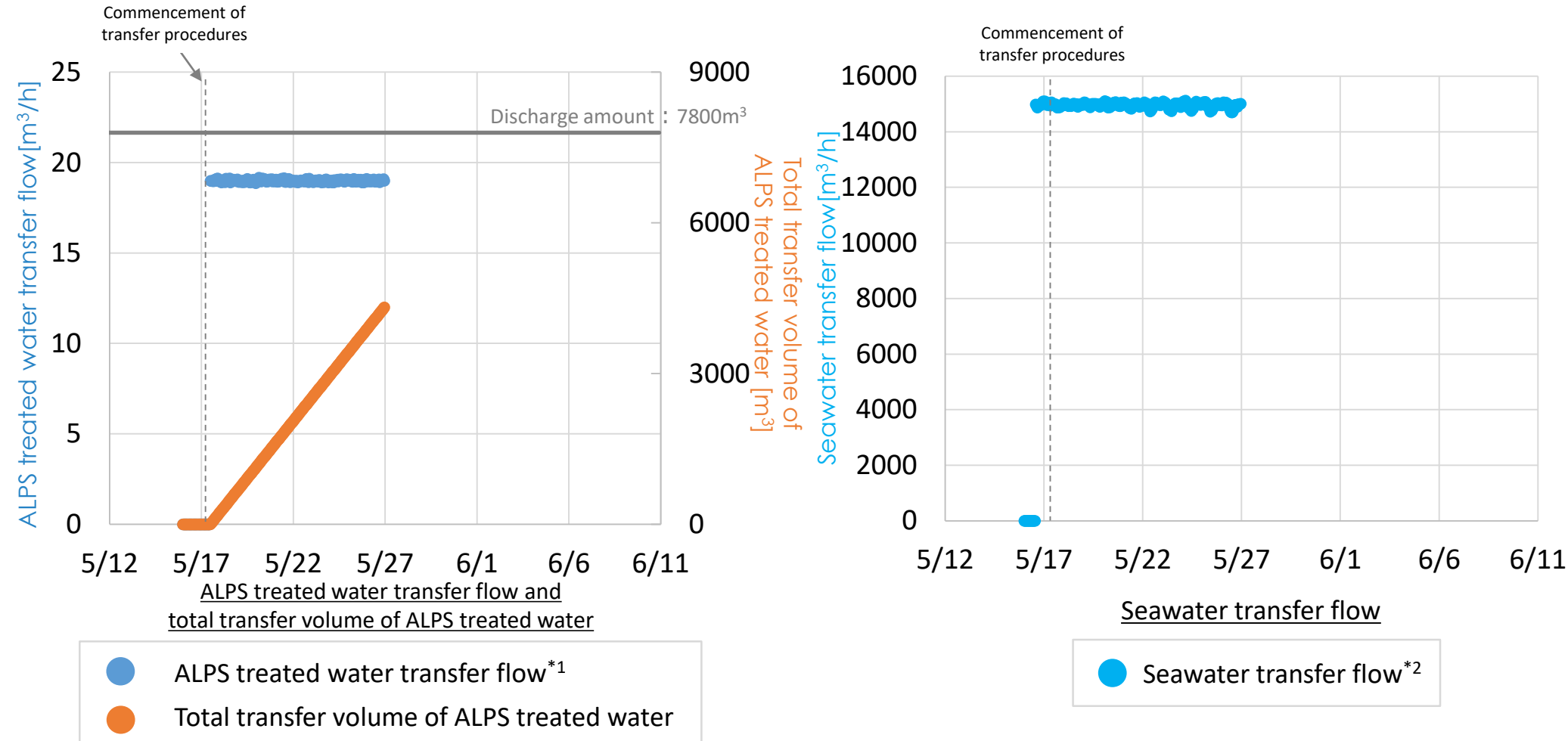
*1 In accordance with Fukushima Prefecture's "Ordinance on Discharge Standards Based on the Air Pollution Control Act and Wastewater Standards based on the Water Pollution Prevention Act (attached Chart 2) [大気汚染防止法に基づく排出基準及び水質汚濁防止法に基づく排水基準を定める条例(別表第2)], and "the Ordinance Enforcement Regulations Pertaining to the Preservation of the Living Environment in Fukushima (attached Chart 5) [福島県生活環境の保全等に関する条例施行規則(別表第5)]."

*2 "Not Detected" indicates that, as described in "Ministerial Ordinance on Effluent standards (attached Table 1) [排水基準を定める省令(別表第一)]", when the state of water pollution is assessed in discharged water using the methods established by the Minister of the Environment, the result is below the limit of quantification (Alkyl Mercury: 0.0005 mg/liter) of the assessment method.

※2: Excerpt from Treated Water Portal Site

2-1. Operating parameter records during the discharge (1/3)

- We are operating ALPS treated water transfer systems and seawater systems without issue.

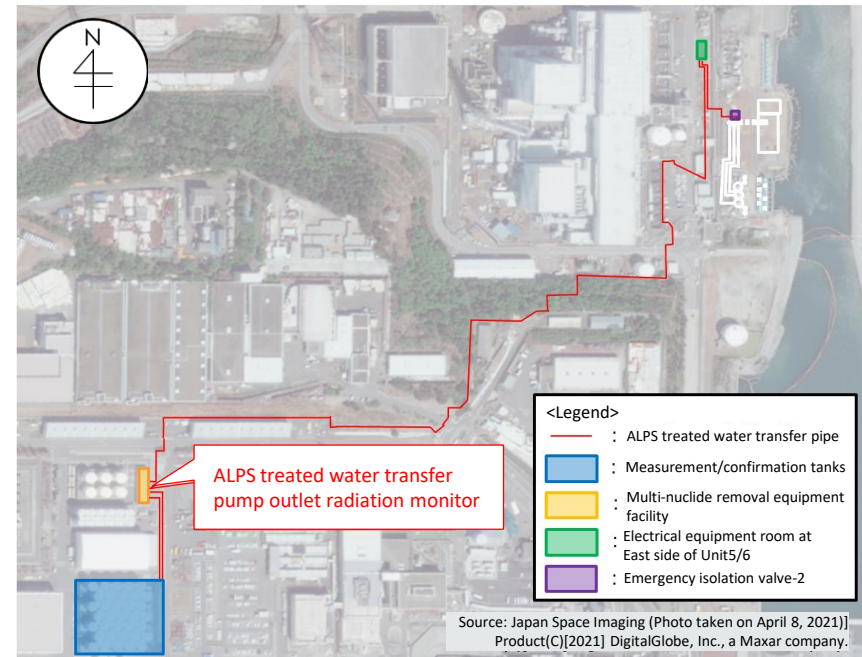
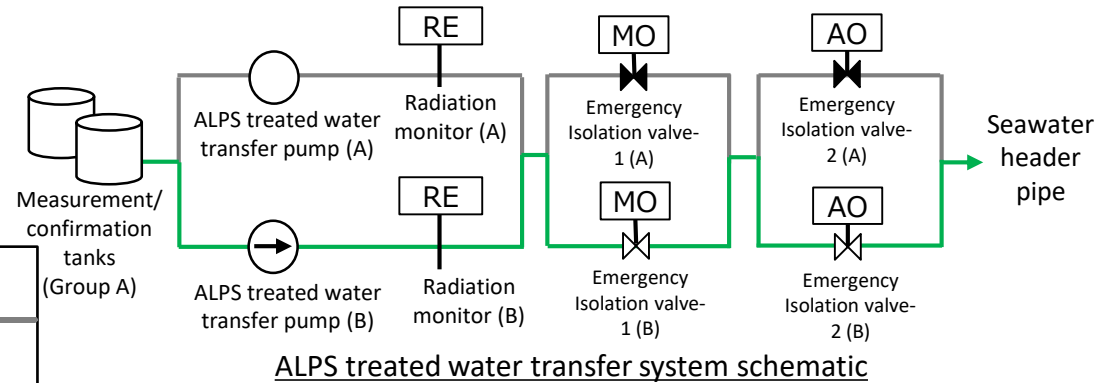
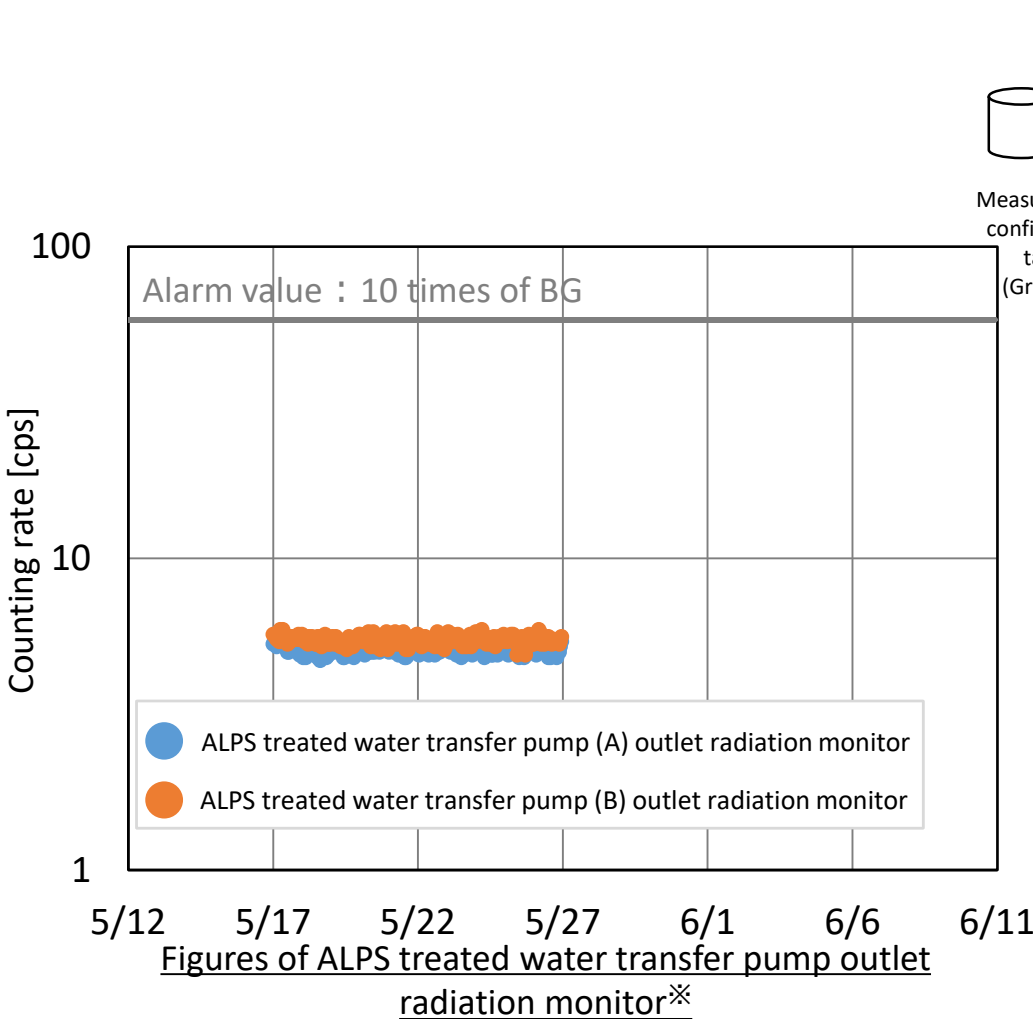


*1 : The flowmeters are reduplicate, so the higher of the figures from both meters was used.

*2 : Total for systems A and B

2-1. Operating parameter records during the discharge (2/3)

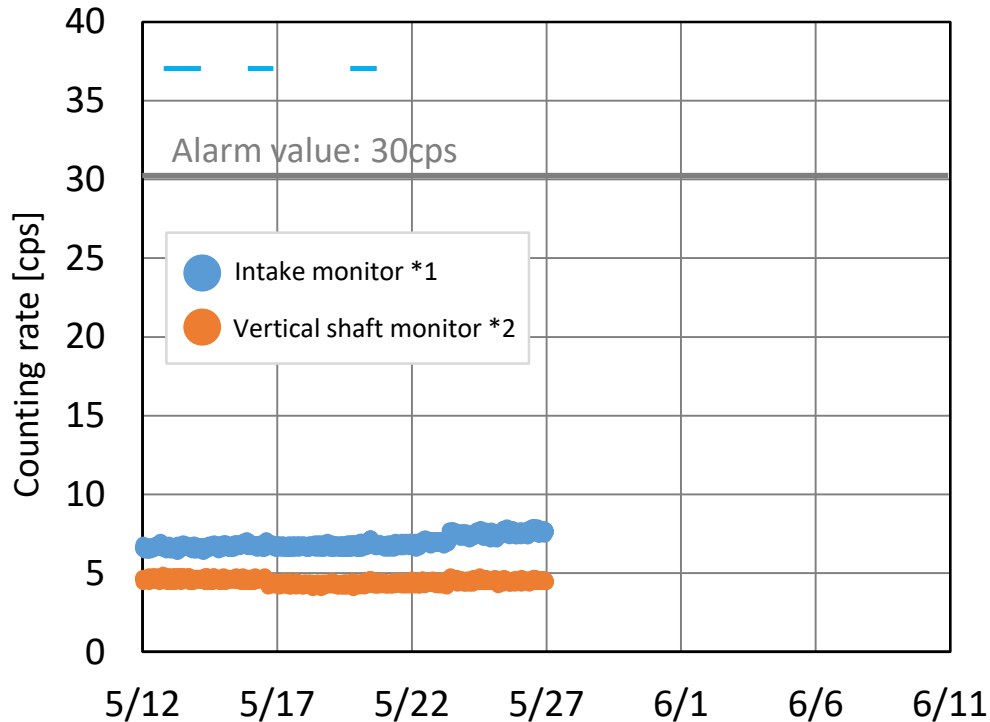
- No abnormalities are seen in the figures from the ALPS treated water transfer pump outlet radiation monitor.



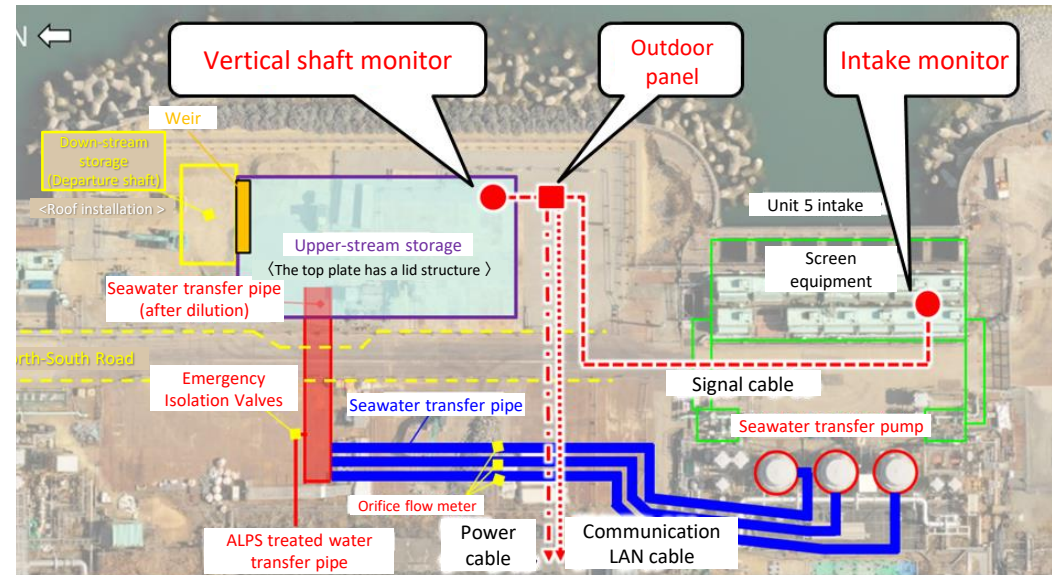
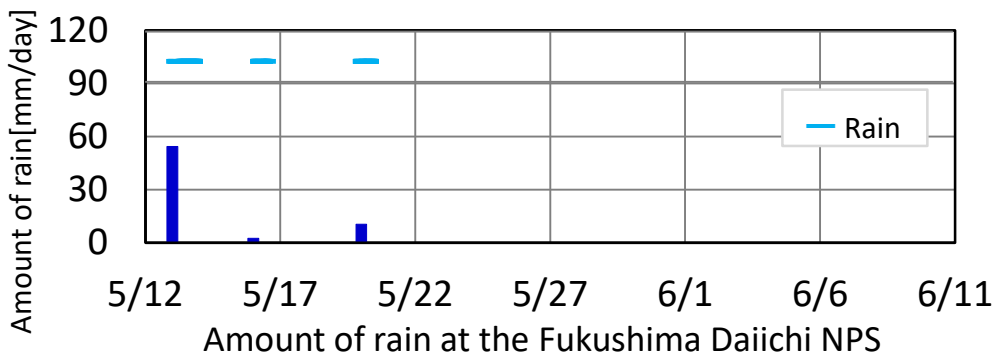
※: As shown in the schematic on the upper right, during the third discharge, ALPS treated water was passed through System B. (System A was filled with filtrated water)

2-1. Operating parameter records during the discharge (3/3)

■ No abnormalities are seen in intake monitor and vertical shaft monitor.



Figures of Intake/Vertical shaft monitor



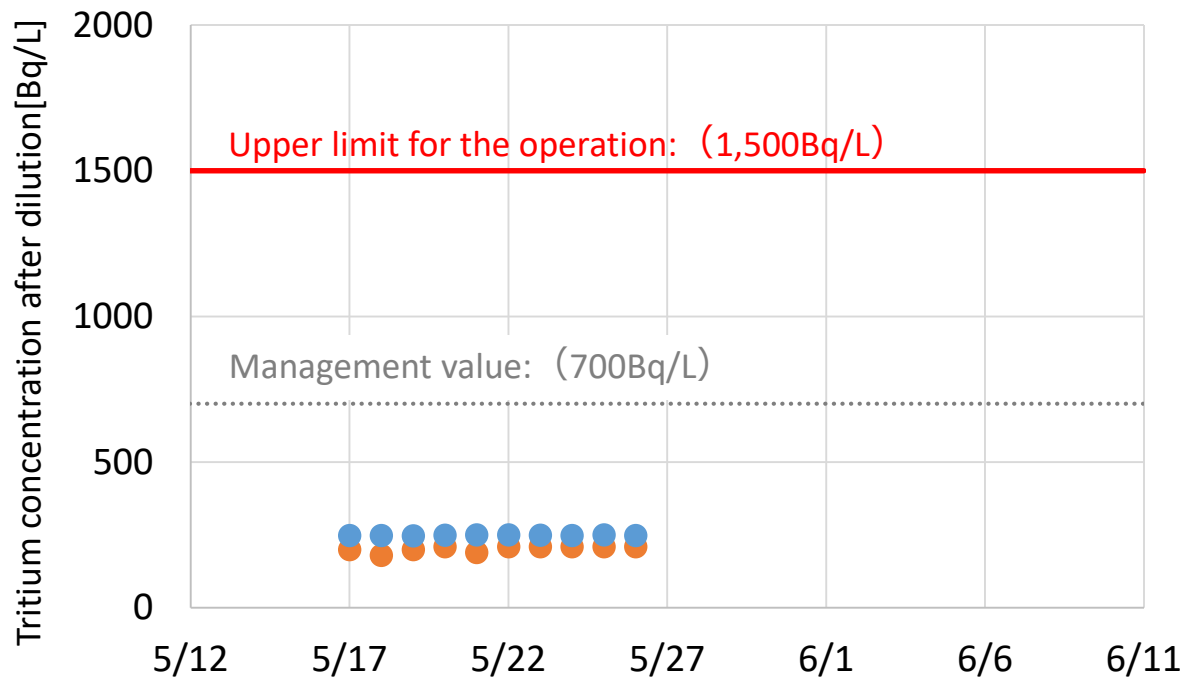
Overview of Intake/Vertical shaft monitor

*1: The increase in intake monitor readings (●) is assumed to be due to Cs-137 that contained in soil and marine organisms.

*2: The slight decrease in vertical shaft monitor readings (●) since May 16 is assumed to be due to the rise in water level in the upper-stream storage caused by the activation of seawater transfer pump (which thereby enhanced the shielding effect of water against radiation exposure from the surrounding area).

2-2. Tritium concentrations after dilution during the discharge **TEPCO**

- During the discharge period, water is sampled daily from the seawater pipe to analyze tritium concentrations.
⇒ Confirmed to be less than the upper limit for the operation: 1,500Bq/liter



- Calculated values^{※1}
- Analysis values(Detected values)

※1 : Calculated using the following formula
(Uncertainty has been considered for each parameter)

Tritium concentrations after dilution (Calculated values)

$$= \frac{\text{Tritium concentrations in ALPS treated water} \times \text{ALPS treated water transfer flow}}{\text{Seawater transfer flow} + \text{ALPS treated water transfer flow}}$$

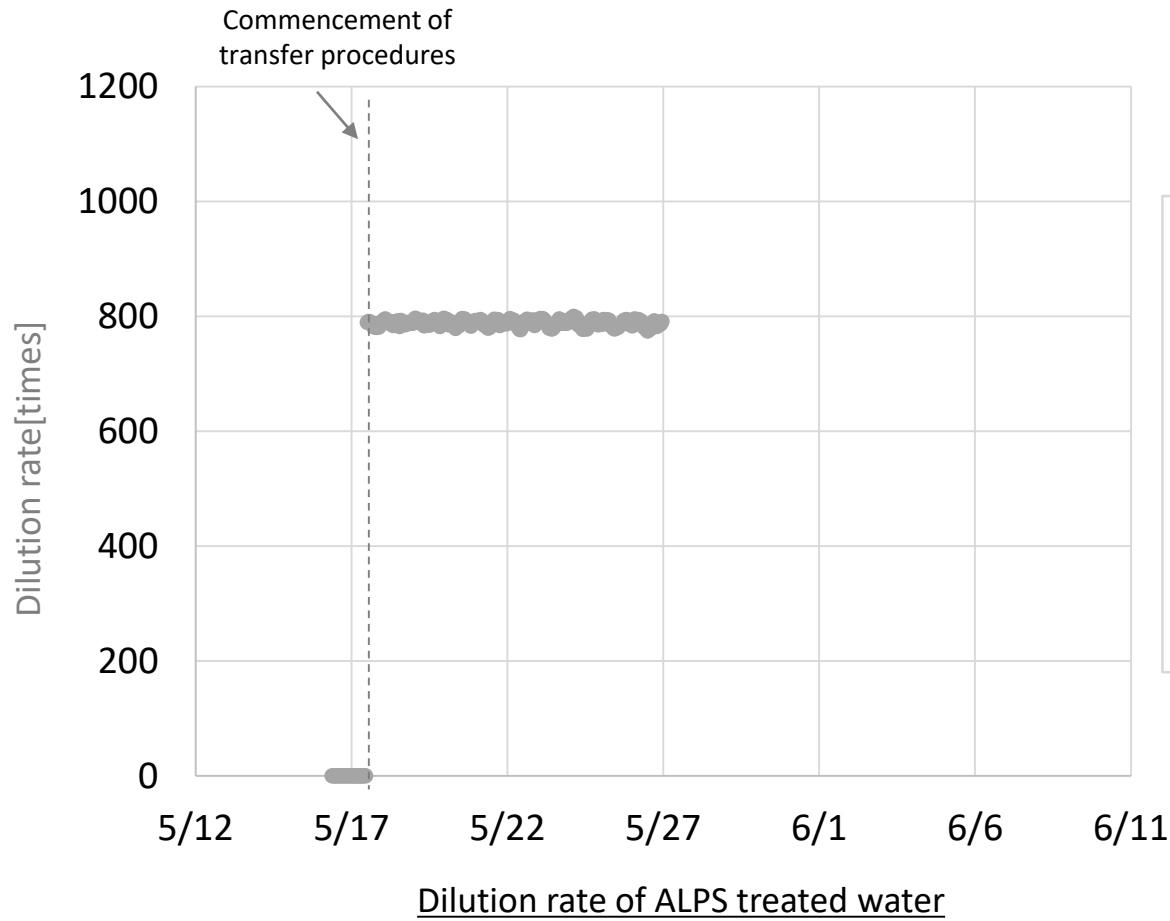
※2 : Analysis values at measurement/confirmation tanks

Tritium concentrations after dilution (calculated values and analysis values)

	5/17	5/18~5/26
Calculated value: Time of data acquisition	14:00	7:00
Analysis value: Time of specimen sampling	14:13	7:00~10:00

[Reference] Dilution rate of ALPS treated water

- The dilution rate has always been kept at over 100 times during the discharge.



● Dilution rate^{※1}

$$\text{Dilution rate} = \frac{\text{Seawater flow rate}^{\text{※2}} + \text{ALPS treated water flow rate}^{\text{※3}}}{\text{ALPS treated water flow rate}^{\text{※3}}}$$

※2 : Total for systems A and B
※3 : The flowmeters are reduplicate, so the higher of the figures from both meters was used for calculation

2-3. Sea area monitoring history

- Measurement results of tritium concentrations in water sampled in the vicinity of the discharge outlet (within 3km of the power station) and outside of the vicinity of the discharge outlet (within a 10km square in front of the power station) since the commencement of the first discharge on August 24, 2023, are all below indices (discharge suspension level and investigation level).
- For quick tritium measurements taken in the vicinity of the discharge outlet, since December 26, 2023, we have changed its frequency so that it focuses during the discharge period, and we have continued its monitoring.

(Unit : Bq/liter)

	Sampling location	Frequency	May, 2024									
			17* ³	18	19	20	21	22	23	24	25	26
In the vicinity of the discharge outlet	T-1	Twice a week* ¹	<5.7	–	–	<7.2	–	–	<7.3	–	–	–
	T-2	Twice a week* ¹	<5.8	–	–	<7.3	–	–	<7.3	–	–	–
	T-0-1	Once a day* ²	<8.9	<7.9	<7.0	<6.5	<7.3	<6.5	<5.6	<6.4	<6.0	<7.4
	T-0-1A	Once a day* ²	<8.8	<7.9	<6.9	<6.5	<6.9	<6.4	<5.5	<6.2	<6.9	<7.4
	T-0-2	Once a day* ²	<8.9	<7.9	<7.0	<6.5	<7.0	7.7	<5.5	<6.1	<6.9	<7.4
	T-0-3A	Twice a week* ¹	<6.3	–	–	<6.9	–	–	<6.1	–	–	–
	T-0-3	Twice a week* ¹	<8.9	–	–	<6.5	–	–	<5.6	–	–	–
	T-A1	Twice a week* ¹	<6.2	–	–	<6.9	–	–	<6.1	–	–	–
	T-A2	Once a day* ²	<6.3	<7.9	<6.7	<6.8	<6.9	<6.4	<6.0	<6.2	<6.9	<8.3
	T-A3	Twice a week* ¹	<6.2	–	–	<6.9	–	–	<6.2	–	–	–
Outside the vicinity of the discharge outlet	T-D5	Once a week	–	–	–	<7.2	–	–	–	–	–	–
	T-S3	Once a month	–	–	–	–	–	<5.5	–	–	–	–
	T-S4	Once a month	–	–	–	–	–	<5.5	–	–	–	–
	T-S8	Once a month	–	–	–	–	–	<5.5	–	–	–	–

※ : A “less than” symbol (<) indicates that the analysis result was less than the detection limit.

: Term of discharge of ALPS treated water (Management number: 24-2-6)

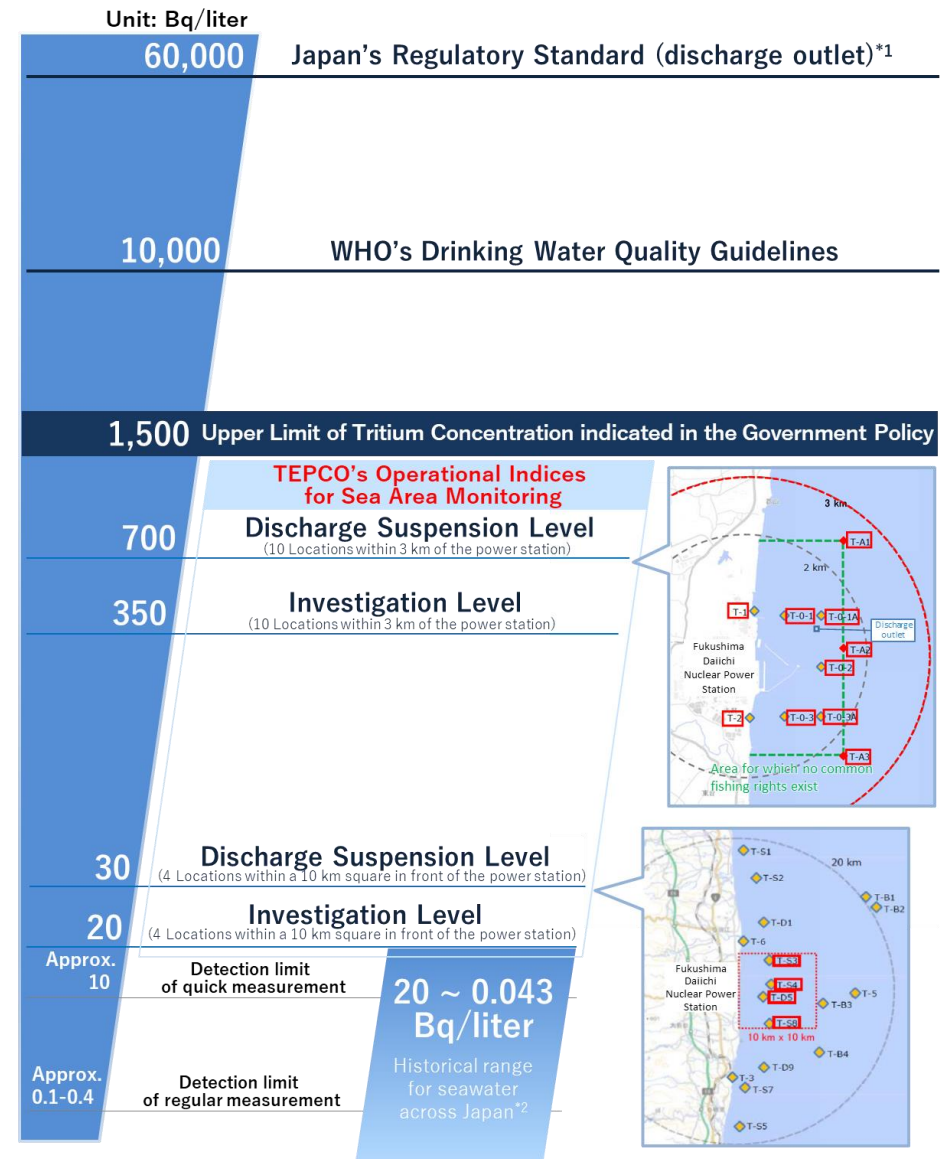
*1 : Conduct twice a week during the discharge period and for one week following the completion of discharge
Conduct once a month outside the discharge period, excluding one week following the completion of discharge

*2 : Conduct daily during the discharge period and for one week following the completion of discharge
Conduct once a week outside the discharge period, excluding one week following the completion of discharge

*3 : Sampled after the commencement of discharge at 1PM

[Reference] Comparison of tritium concentration in seawater

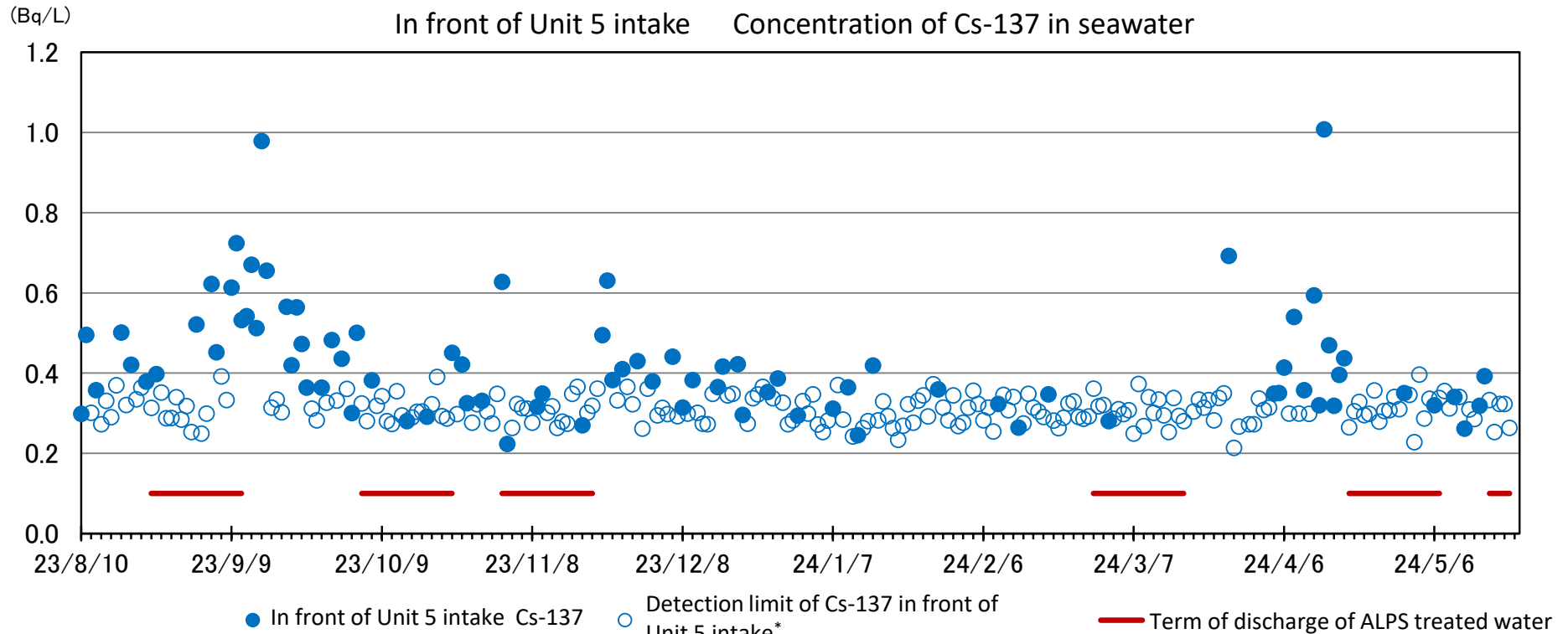
- Tritium concentrations measured during sea area monitoring after the commencement of discharge are within the range of fluctuation identified through past seawater monitoring performed throughout the entirety of Japan.
- In the future, it is possible that concentrations of tritium in the seawater may be affected by the concentrations of tritium in the ALPS treated water that is discharged, and exceed those observed in the past.
- However, even if this occurs, sea dispersion simulation results for discharged water performed during the radiological impact assessment have shown that these fluctuations will be within predicted levels and below the investigation level.



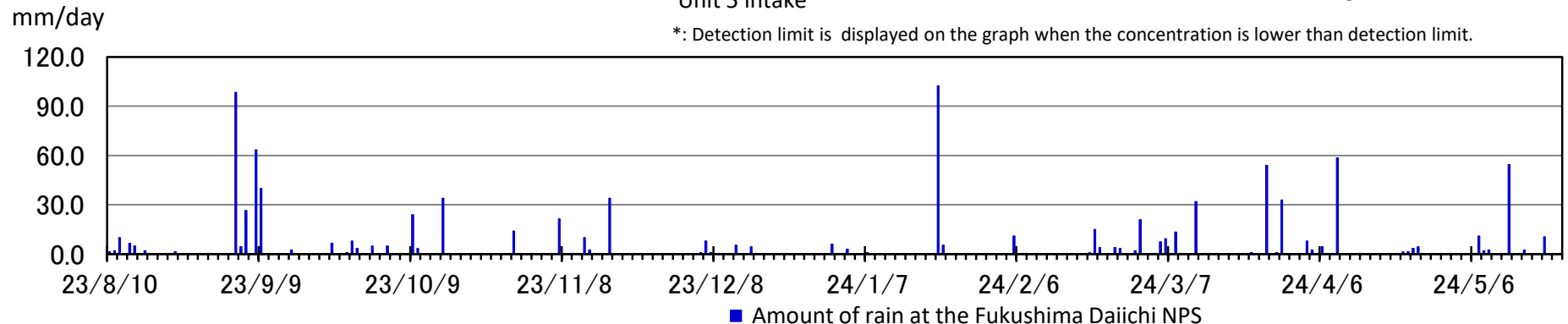
*1: This standard has been stipulated based on the calculation that if a person were to drink approximately 2L of the water coming out of the discharge outlet of a nuclear facility every day for one year, his/her exposure would be 1mSv.
 *2: Source: Environmental Radioactivity and Radiation in Japan (Period: April 2019 to March 2022)

2-4. Unit 5 intake channel monitoring

- Sea water monitoring results at near the intake for seawater to be used for dilution during the discharge of ALPS treated water have confirmed that values are similar to those outside of the term of the discharge.

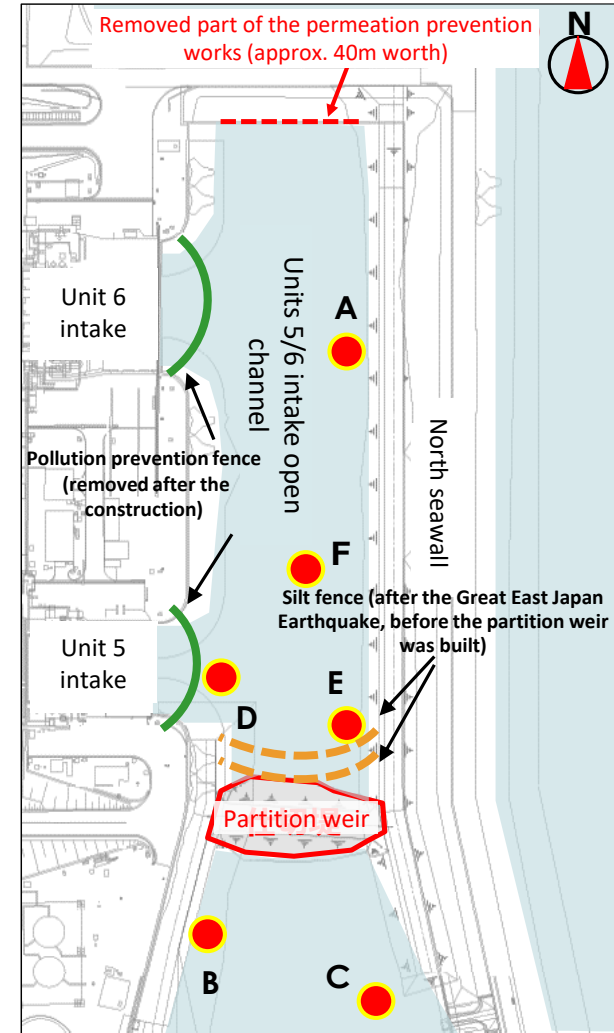
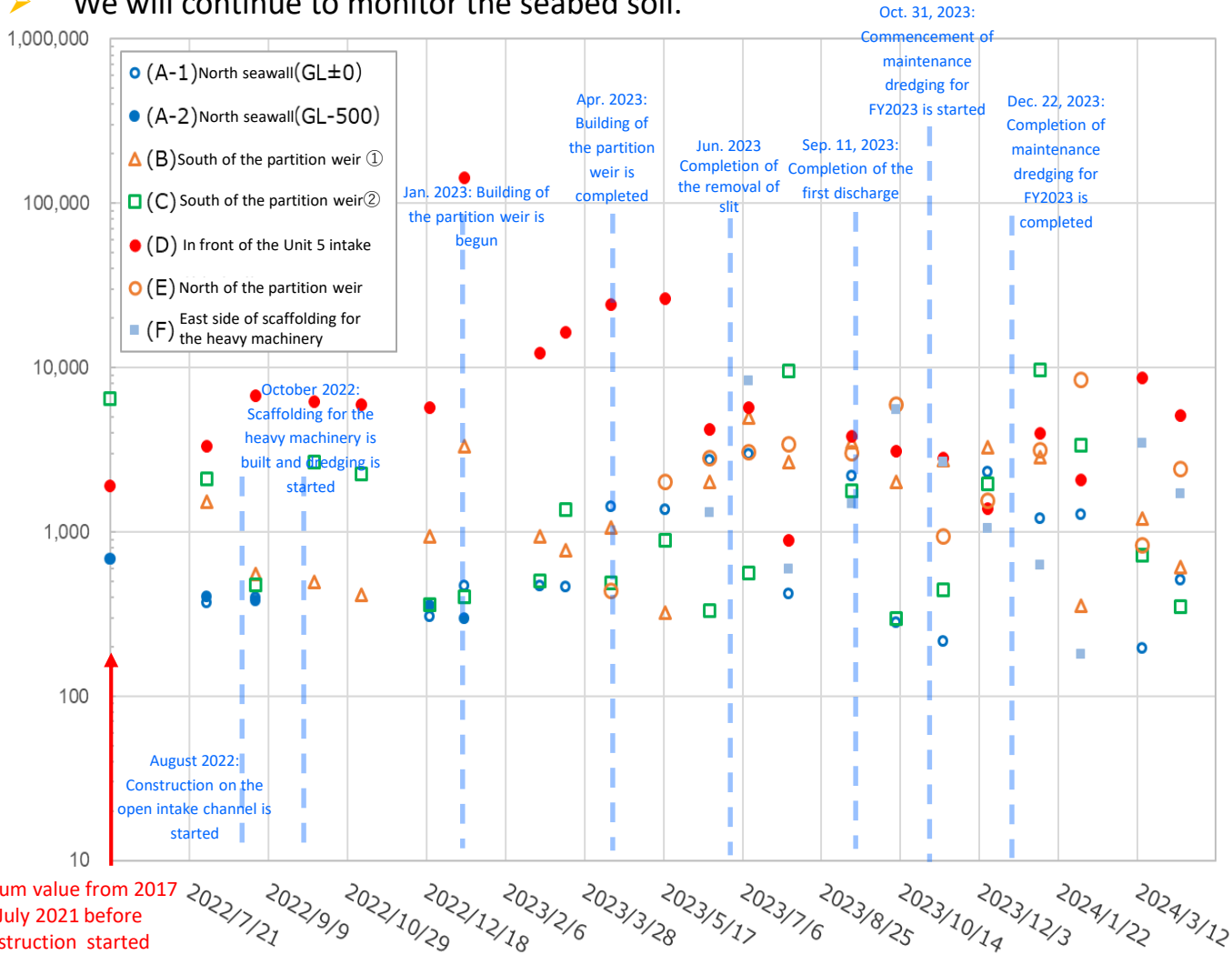


*: Detection limit is displayed on the graph when the concentration is lower than detection limit.



2-5. Monitoring results for seabed soil inside the Unit 5/6 intake open channel (1)

- Monitoring results for seabed soil in front of Unit 5 intake did not show significant fluctuations from the beginning of construction until December 2022. While they showed higher readings after January 2023, we have confirmed that these readings decreased after the completion of silt removal.
- We will continue to monitor the seabed soil.

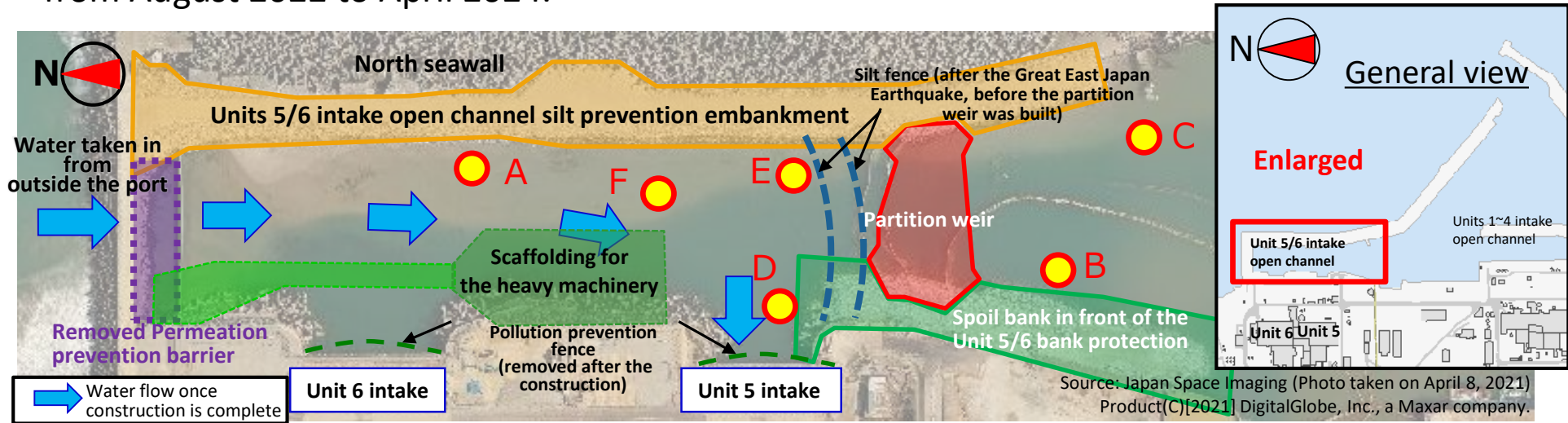


<Legend>

- : Sampling location in construction
- : Silt fence (before the partition weir was built)
- : Pollution prevention fence

2-6. Monitoring results for seabed soil inside the Unit 5/6 intake open channel (1)

➤ The following shows monitoring results for seabed soil inside the unit 5/6 intake open channel from August 2022 to April 2024.



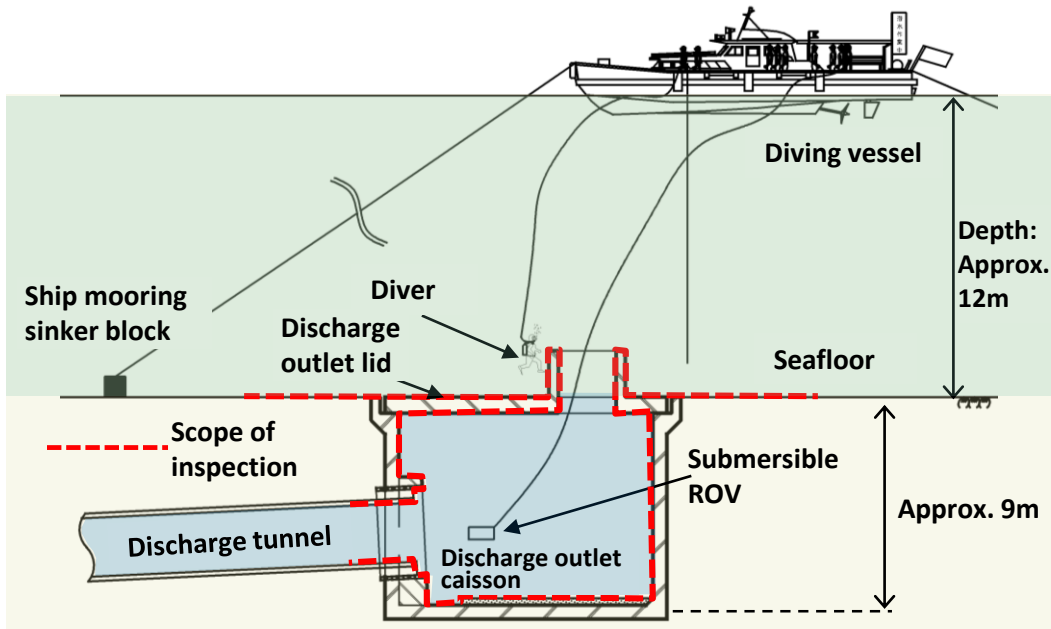
Sampling points		Before construction	2022						2023												2024			
		2017 to July 2021	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	
A-1 North side of the Unit 5/6 open channel North side of the silt fence (GL ± 0m)	Cs-134	4.4~52.3	33.2	36.0	-	-	31.5	37.2	39.8	39.8	40.1	33.9	66.5	65.5	33.6	65.9	34.6	32.0	69.5	44.5	51.1	34.6	34.4	
	Cs-137	163.6~678.6	371.6	398.8	-	-	303.2	468.1	460.2	460.2	1,414.0	1,360.0	2,752.0	2,957.0	422.3	2,195.0	281.8	216.7	2,322.0	1,210.0	1,270.0	195.2	510.4	
A-2 North side of the Unit 5/6 open channel North side of the silt fence (GL-0.5m)	Cs-134	14.4~58.5	33.6	32.5	-	-	38.3	33.4	※Only sampled from the surface (GL ± 0m) since sand was removed during dredging															
	Cs-137	310.0~689.8	404.0	383.2	-	-	356.4	299.1																
B South side of the partition weir ① (South side of the silt fence)	Cs-134	723.0	34.5	42.1	65.6	55.4	46.7	73.9	49.1	43.1	62.6	47.8	60.1	97.1	59.9	92.5	52.4	53.2	83.7	75.2	38.2	52.8	35.1	
	Cs-137	6,475.0	1,528.0	553.9	492.4	412.8	936.0	3,331.0	936.1	777.0	1,061.0	323.8	2,008.0	4,943.0	2,649.0	3,528.0	2,004.0	2,732.0	3,287.0	2,868.0	353.9	1,205.0	613.8	
C North side of the partition weir ② (South side of the silt fence)	Cs-134	183.0	51.3	47.2	68.7	59.7	51.8	40.3	30.9	40.3	44.6	61.6	59.5	47.7	234.8	59.3	37.1	39.6	44.0	153.3	115.8	42.4	26.5	
	Cs-137	1,893.0	2,114.0	476.0	2,671.0	2,242.0	360.8	400.5	503.5	1,356.0	485.9	886.9	330.5	560.6	9,519.0	1,773.0	295.9	441.2	1,970.0	9,737.0	3,345.0	723.9	348.9	
D Unit 5 intake	Cs-134	-	101.6	184.0	213.7	160.4	108.7	3,546.0	167.4	472.0	690.7	586.2	63.7	141.4	64.5	75.2	70.7	50.2	50.5	61.8	50.3	177.8	114.8	
	Cs-137	-	3,301.0	6,714.0	6,198.0	5,941.0	5,678.0	144,000.0	12,290.0	16,972.0	24,760.7	26,400.0	4,189.0	5,699.0	951.7	3,876.2	3,085.0	2,810.0	1,387.0	3,981.0	2,069.0	8,661.0	5,140.0	
E North side of the partition weir	Cs-134	-	-	-	-	-	-	-	-	-	42.8	59.8	86.8	98.7	56.9	147.0	35.6	45.5	64.4	161.2	46.4	40.4	-	
	Cs-137	-	-	-	-	-	-	-	-	-	437.1	2,022.0	2,822.0	3,069.0	3,438.0	3,022.0	5,975.0	936.5	1,546.0	3,145.0	8,371.0	829.4	2,427.0	
F East side of scaffolding for the heavy machinery	Cs-134	-	-	-	-	-	-	-	-	-	-	-	40.2	166.1	45.3	53.7	98.0	52.4	51.4	58.6	31.3	55.3	37.8	
	Cs-137	-	-	-	-	-	-	-	-	-	-	-	1,312.0	8,303.0	592.4	1,481.0	5,569.0	2,676.0	1,049.0	630.9	178.7	3,446.0	1,694.0	

※Unit: Bq/liter, Figures in gray were below the detection limit

(Reference) Inspection for discharge outlet, etc.

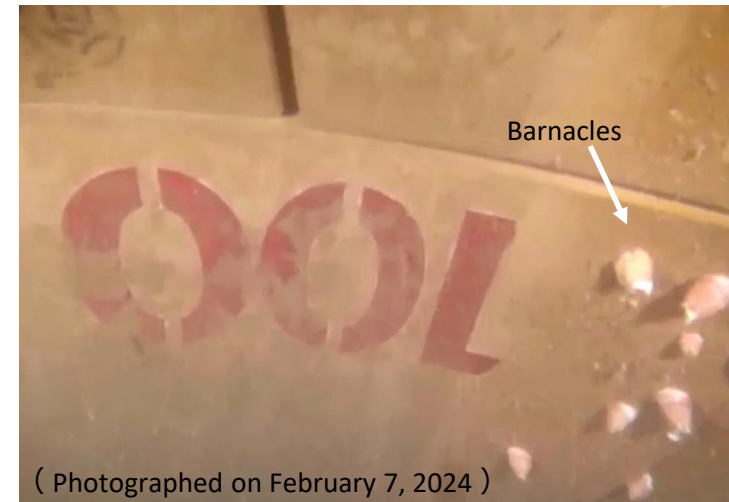
■ Summary

- A portion of the discharge tunnel and the discharge outlet caisson that is located approximately 1km offshore from the power station will be inspected while discharge is suspended between discharge management numbers 24-2-6※ and 24-3-7 as noted in the FY2024 ALPS treated water discharge plan (Preparations: 1 day; Inspection: 1 ~2 days; Clean-up: 1 day)
 - ※ The management number is made up of the fiscal year, followed by the discharge number for that fiscal year, and the total number of discharges to date. For example, "24-2-6" indicates that the data is for the second discharge of 2024, which is the sixth discharge to date.
- Inspection will focus on primarily the adhesion of marine organisms, sediment conditions, and cross-sectional blockage (foreign matter, etc.), etc. just like the discharge tunnel inspection that was implemented in February of this year. Photographs, etc. will be taken to inspect these conditions.
- A submersible ROV will be used to conduct the inspection but divers will also be in the water to help maneuver the submersible ROV since all of the facilities to be inspected are submerged.
- We will implement the inspection with safety as the top priority while considering weather conditions



Inspection concept diagram

※ The areas inside and outside of the caisson cannot be inspected using the submersible ROV will be inspected by divers alone

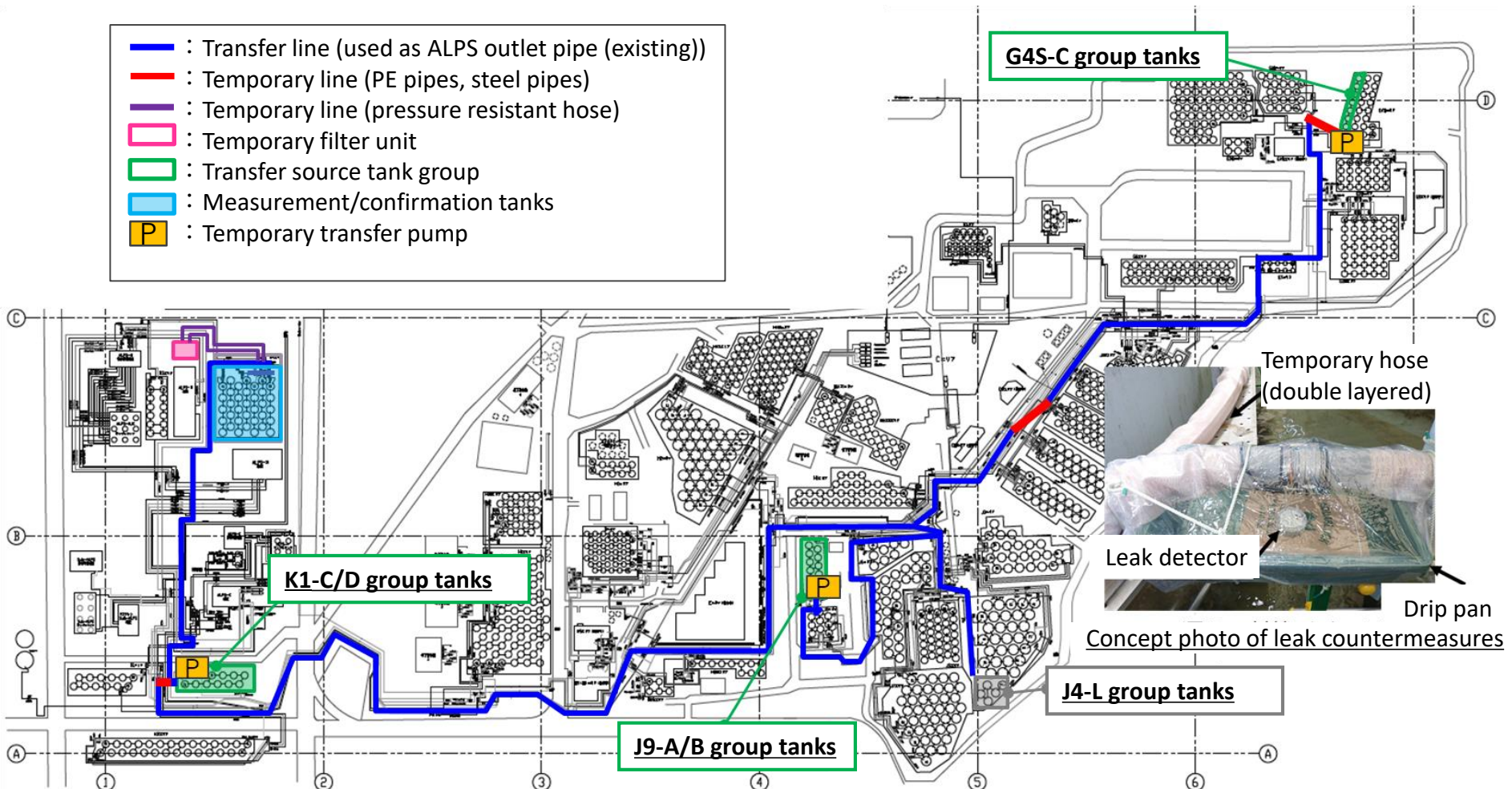


(Reference) A picture taken during the discharge tunnel inspection. It shows conditions on the roof of the tunnel approximately 100m from the down-stream storage.

1. Performance of the 5th discharge of ALPS treated water
 2. Status of work for the 6th discharge of ALPS treated water
 - 3. Transfer of ALPS treated water in preparation for the 7th and 8th discharges**
 4. Annual discharge volume regarding ALPS treated water discharge (FY2023)
- (Reference) Sea area monitoring history after the commencement of discharge

3. Transfer of ALPS treated water in preparation for the 7th and 8th discharges

- Transfer of ALPS treated water from J9 area Group A/B and K1 area Group C/D to measurement/confirmation facility tank group B in preparation for the 7th discharge was conducted (transfer commenced on March 19, 2024 and completed on April 11, 2024) The water is currently being analyzed.
- Transfer of ALPS treated water from K1 area Group C/D and G4S area Group C to measurement/confirmation facility tank group C in preparation for the 8th discharge has been conducting (transfer commenced on May 10 and will be completed in early June. Circulation/agitation will commenced in the middle of June).



-
1. Performance of the 5th discharge of ALPS treated water
 2. Status of work for the 6th discharge of ALPS treated water
 3. Transfer of ALPS treated water in preparation for the 7th and 8th discharges
 - 4. Annual discharge volume regarding ALPS treated water discharge (FY2023)**

(Reference) Sea area monitoring history after the commencement of discharge

4. Annual discharge volume regarding ALPS treated water discharge (FY2023)

- Regarding discharge of ALPS treated water in FY2023 (total four discharges), annual tritium discharge volume was 4.5 trillion Bq and it was below the annual discharge limit of tritium, 22 trillion Bq.
- The following chart shows the total radioactivity [Bq] for nuclides to be measured and assessed (29 nuclides), and the nuclides detected in the water in the measurement/confirmation facility tank for each discharge are accumulated. It was confirmed that the sum of the ratios of legally required concentrations of the nuclides targeted for each discharge is less than 1.

Nuclide	Amount of radioactivity [Bq]	Nuclide	Amount of radioactivity [Bq]	Nuclide	Amount of radioactivity [Bq]
C-14	4.3E+08	Sb-125	2.2E+06	U-234	— ※1
Mn-54	— ※1	Te-125m	8.0E+05	U-238	— ※1
Fe-55	— ※1	I-129	6.4E+07	Np-237	— ※1
Co-60	9.8E+06	Cs-134	— ※1	Pu-238	— ※1
Ni-63	— ※1	Cs-137	1.4E+07	Pu-239	— ※1
Se-79	— ※1	Ce-144	— ※1	Pu-240	— ※1
Sr-90	5.9E+06	Pm-147	— ※1	Pu-241	— ※1
Y-90	5.9E+06	Sm-151	— ※1	Am-241	— ※1
Tc-99	3.2E+07	Eu-154	— ※1	Cm-244	— ※1
Ru-106	— ※1	Eu-155	— ※1		

※1 : The total radioactivity from nuclides for which analysis values were below the detection limit (ND) have not been included.

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1. Performance of the 5th discharge of ALPS treated water
 2. Status of work for the 6th discharge of ALPS treated water
 3. Transfer of ALPS treated water in preparation for the 7th and 8th discharges
 4. Annual discharge volume regarding ALPS treated water discharge (FY2023)
- (Reference) Sea area monitoring history after the commencement of discharge**

(Reference) Sea area monitoring history (1/25)

○ Measurement results of tritium concentrations in water sampled in the vicinity of the discharge outlet (within 3km of the power station) and outside of the vicinity of the discharge outlet (within a 10km square in front of the power station) since the commencement of the first discharge on August 24, 2023, are all below indices (discharge suspension level and investigation level).

○ For quick tritium measurements taken in the vicinity of the discharge outlet, we increased the frequency from once a week to daily after the commencement of the discharge, continuing until December 25, 2023, and we have promptly disclosed the results.

(Unit: Bq/liter)

	Sampling location	Frequency	August, 2023											
			24 *1	24 Normal *1,2	25	26	26 Normal *3	27	28	29	30	30 Normal *2,3	31	31 Normal *3
In the vicinity of the discharge outlet	T-1	Once a week*	<6.3	<0.34	<5.6	<6.6	0.97	<6.2	<7.3	<5.9	<6.4	1.0	<6.8	—
	T-2	Once a week*	<6.3	<0.33	<5.5	<6.5	1.1	<6.2	<7.3	<5.9	<6.3	1.3	<6.8	—
	T-0-1	Once a week*	<8.0	<0.34	<6.8	<6.1	0.66	<6.1	—*4	—*4	<6.8	<0.32	<8.2	—
	T-0-1A	Once a week*	<4.6	2.6	<7.6	<6.2	0.087	<6.1	—*4	—*4	<6.9	0.43	10	—
	T-0-2	Once a week*	<8.1	<0.35	<6.8	<6.1	0.92	<6.1	—*4	—*4	<6.8	1.4	<8.2	—
	T-0-3A	Once a week*	<4.7	<0.33	<7.6	<6.8	<0.068	<6.8	—*4	—*4	<7.6	<0.32	<5.1	—
	T-0-3	Once a week*	<8.0	<0.34	<6.9	<6.1	0.14	<6.1	—*4	—*4	<6.8	<0.31	<8.3	—
	T-A1	Once a week*	<6.6	<0.32	<7.6	<6.8	0.13	<6.8	—*4	—*4	<7.6	1.1	<5.1	—
	T-A2	Once a week*	<6.6	<0.32	<7.6	<6.8	0.065	<6.8	—*4	—*4	<7.7	1.5	<5.1	—
	T-A3	Once a week*	<6.6	<0.32	<6.9	<6.8	<0.072	<6.8	—*4	—*4	<7.6	1.1	<5.2	—
Outside the vicinity of the discharge outlet	T-D5	Once a week	—	—	—	—	—	—	—	—	—	—	<6.8	0.59
	T-S3	Once a month	—	—	—	—	—	—	—	—	<7.6	0.070	—	—
	T-S4	Once a month	—	—	—	—	—	—	—	—	<7.7	0.073	—	—
	T-S8	Once a month	—	—	—	—	—	—	—	—	<7.7	0.062	—	—

※ : A "less than" symbol (<) indicates that the analysis result was less than the detection limit.

* : Monitored daily for the time being after the commencement of discharge

*1 : Sampled after the commencement of discharge at 3PM

*3 : Detection limit 0.1 Bq/liter

*2 : Detection limit 0.4 Bq/liter

*4 : Sampling suspended due to bad weather condition

□ : Term of discharge of ALPS treated water (Management number: 23-1-1)

(Reference) Sea area monitoring history (2/25)

(Unit: Bq/liter)

	Sampling location	Frequency	September, 2023											
			1	2	3	4	4 Normal *1	5	6	6 Normal *1	7	8	9	10
In the vicinity of the discharge outlet	T-1	Once a week*	<7.2	<6.8	<5.8	<6.6	0.68	<7.1	<7.1	—	<6.1	<5.9	<6.0	<7.8
	T-2	Once a week*	<7.4	<6.8	<5.8	<6.6	0.90	<7.1	<7.1	—	<6.1	<5.9	<6.0	<7.8
	T-0-1	Once a week*	<7.3	<7.3	<6.8	<6.9	<0.34	<6.6	<6.6	—	<8.7	<6.9	<8.0	<7.0
	T-0-1A	Once a week*	<7.3	<8.2	<6.8	<6.9	<0.33	<7.0	<6.6	—	<8.7	<6.9	<8.0	<7.1
	T-0-2	Once a week*	<7.3	<7.3	<6.7	<7.0	0.74	<6.5	<6.6	—	<8.6	<6.8	<8.0	<7.0
	T-0-3A	Once a week*	<7.0	<7.8	<6.5	<5.9	<0.33	<7.6	<6.3	—	<5.3	<7.4	<6.5	<6.5
	T-0-3	Once a week*	<7.3	<8.2	<6.7	<6.8	<0.34	<7.8	<6.6	—	<8.7	<6.9	<8.0	<7.1
	T-A1	Once a week*	<7.1	<7.9	<6.5	<5.9	1.1	<7.6	<6.3	—	<5.3	<7.4	<6.4	<6.5
	T-A2	Once a week*	<7.1	<7.8	<6.5	<7.3	0.88	<7.6	<6.2	—	<5.3	<7.3	<6.6	<6.4
	T-A3	Once a week*	<7.1	<7.9	<6.5	<7.3	0.82	<7.6	<6.3	—	<5.3	<7.3	<6.5	<6.5
Outside the vicinity of the discharge outlet	T-D5	Once a week	—	—	—	—	—	—	<7.1	<0.34	—	—	—	—
	T-S3	Once a month	—	—	—	—	—	—	—	—	—	—	—	—
	T-S4	Once a month	—	—	—	—	—	—	—	—	—	—	—	—
	T-S8	Once a month	—	—	—	—	—	—	—	—	—	—	—	—

※ : A “less than” symbol (<) indicates that the analysis result was less than the detection limit.

*1 : Detection limit 0.4 Bq/liter

: Term of discharge of ALPS treated water (Management number: 23-1-1)

* : Monitored daily for the time being after the commencement of discharge

(Reference) Sea area monitoring history (3/25)

(Unit: Bq/liter)

	Sampling location	Frequency	September, 2023											
			11 *1	11 Normal *1,2	12	12 Normal *2	13	13 Normal *2	14	15	16	17	18	18 Normal *3
In the vicinity of the discharge outlet	T-1	Once a week*	<7.0	0.21	<7.2	—	<7.2	—	<6.5	<7.3	<6.7	<7.0	<7.6	<0.31
	T-2	Once a week*	<7.0	0.24	<7.2	—	<7.2	—	<6.5	<7.4	<6.8	<6.9	<7.6	<0.31
	T-0-1	Once a week*	<6.8	0.10	<7.7	—	<6.6	—	<7.5	<7.8	<7.6	<7.8	<7.4	<0.36
	T-0-1A	Once a week*	<6.8	0.12	<7.8	—	<6.5	—	<7.5	<7.7	<7.5	<7.7	<7.3	<0.34
	T-0-2	Once a week*	<6.8	0.13	<7.7	—	<6.5	—	<7.5	<7.7	<7.6	<7.7	<7.3	<0.31
	T-0-3A	Once a week*	<6.2	0.10	<7.0	—	<5.9	—	<6.6	<7.4	<6.8	<6.9	<7.6	<0.35
	T-0-3	Once a week*	<6.8	0.16	<7.8	—	<6.5	—	<7.5	<7.7	<7.5	<7.8	<7.3	<0.34
	T-A1	Once a week*	<7.0	0.078	<7.0	—	<5.9	—	<6.7	<5.5	<7.2	<5.5	<6.7	<0.31
	T-A2	Once a week*	<7.0	0.097	<7.0	—	<5.9	—	<6.7	<5.5	<7.3	<5.4	<6.7	<0.31
	T-A3	Once a week*	<7.0	0.16	<7.0	—	<5.9	—	<6.7	<5.5	<7.2	<5.5	<6.7	<0.31
Outside the vicinity of the discharge outlet	T-D5	Once a week	—	—	—	—	<7.2	0.11	—	—	—	—	—	—
	T-S3	Once a month	—	—	<7.1	<0.068	—	—	—	—	—	—	—	—
	T-S4	Once a month	—	—	<7.1	0.087	—	—	—	—	—	—	—	—
	T-S8	Once a month	<6.2	0.098	—	—	—	—	—	—	—	—	—	—

※ : A “less than” symbol (<) indicates that the analysis result was less than the detection limit.

*1 : Sampled before 9AM, prior to the completion of the discharge

*2 : Detection limit 0.1 Bq/liter

*3 : Detection limit 0.4 Bq/liter

□ : Term of discharge of ALPS treated water (Management number: 23-1-1)

* : Monitored daily for the time being after the commencement of discharge

(Reference) Sea area monitoring history (4/25)

(Unit: Bq/liter)

	Sampling location	Frequency	September, 2023											
			19	20	20 Normal *1	21	22	23	24	25	25 Normal *1	26	27	27 Normal *1
In the vicinity of the discharge outlet	T-1	Once a week*	<5.0	<6.9	—	<5.0	<5.3	<6.5	<6.7	<7.2	<0.31	<5.6	<6.2	—
	T-2	Once a week*	<5.0	<6.9	—	<5.0	<5.3	<6.5	<6.7	<7.2	<0.31	<5.6	<6.3	—
	T-0-1	Once a week*	<5.5	<7.9	—	<6.5	<6.3	<6.5	<7.6	<8.7	<0.35	<7.9	<6.2	—
	T-0-1A	Once a week*	<5.6	<8.2	—	<6.5	<6.3	<6.5	<7.5	<8.7	<0.35	<7.9	<6.2	—
	T-0-2	Once a week*	<5.6	<7.9	—	<6.5	<6.2	<6.5	<7.5	<8.7	<0.30	<7.9	<6.2	—
	T-0-3A	Once a week*	<5.0	<6.1	—	<5.0	<5.3	<6.5	<6.7	<7.2	<0.35	<5.6	<6.2	—
	T-0-3	Once a week*	<5.5	<7.9	—	<6.5	<6.3	<6.5	<7.5	<8.7	<0.35	<7.9	<6.2	—
	T-A1	Once a week*	<6.9	<5.9	—	<6.6	<7.0	<7.6	<5.1	<6.3	<0.30	<7.3	<6.6	—
	T-A2	Once a week*	<6.9	<5.9	—	<6.7	<7.0	<7.6	<5.1	<6.3	<0.30	<7.3	<6.7	—
	T-A3	Once a week*	<7.0	<6.3	—	<6.6	<7.0	<7.6	<5.1	<6.3	<0.29	<7.3	<6.6	—
Outside the vicinity of the discharge outlet	T-D5	Once a week	—	<6.1	<0.34	—	—	—	—	—	—	—	<6.3	<0.35
	T-S3	Once a month	—	—	—	—	—	—	—	—	—	—	—	—
	T-S4	Once a month	—	—	—	—	—	—	—	—	—	—	—	—
	T-S8	Once a month	—	—	—	—	—	—	—	—	—	—	—	—

※ : A “less than” symbol (<) indicates that the analysis result was less than the detection limit.

*1 : Detection limit 0.4 Bq/liter

* : Monitored daily for the time being after the commencement of discharge

(Reference) Sea area monitoring history (5/25)

(Unit: Bq/liter)

	Sampling location	Frequency	September, 2023			October, 2023								
			28	29	30	1	2	2 Normal *1	3	4	4 Normal *1	5 *2	5 Normal *1,2	6
In the vicinity of the discharge outlet	T-1	Once a week*	<6.7	<4.9	<7.3	<6.0	<5.8	<0.34	<6.7	<6.9	—	<5.8	<0.31	<5.8
	T-2	Once a week*	<6.7	<4.7	<7.3	<6.0	<5.7	<0.33	<6.6	<6.8	—	<5.7	<0.31	<5.7
	T-0-1	Once a week*	<6.8	<6.8	<7.9	<8.3	<7.0	<0.35	<6.5	<7.3	—	<7.8	<0.31	<7.0
	T-0-1A	Once a week*	<6.8	<6.8	<7.9	<8.0	<6.9	<0.35	<6.4	<7.3	—	<7.6	5.2	<7.4
	T-0-2	Once a week*	<6.8	<6.9	<8.0	<8.4	<7.0	<0.36	<6.4	<7.2	—	<7.6	<0.33	<7.0
	T-0-3A	Once a week*	<6.7	<4.7	<7.4	<6.2	<5.8	<0.35	<6.8	<6.9	—	<5.9	<0.32	<5.8
	T-0-3	Once a week*	<6.8	<7.0	<7.7	<8.0	<7.0	<0.35	<6.4	<7.2	—	<7.7	<0.32	<6.4
	T-A1	Once a week*	<9.3	<7.8	<8.1	<8.0	<5.6	<0.30	<7.3	<7.5	—	<7.7	<0.30	<7.0
	T-A2	Once a week*	<5.5	<7.8	<8.0	<8.0	<5.7	<0.30	<7.5	<7.5	—	<7.7	<0.31	<7.0
	T-A3	Once a week*	<7.2	<7.6	<8.0	<8.1	<5.6	<0.30	<7.4	<7.4	—	<7.6	<0.30	<7.1
Outside the vicinity of the discharge outlet	T-D5	Once a week	—	—	—	—	—	—	—	<6.8	<0.35	—	—	—
	T-S3	Once a month	—	—	—	—	—	—	—	—	—	—	—	—
	T-S4	Once a month	—	—	—	—	—	—	—	—	—	—	—	—
	T-S8	Once a month	—	—	—	—	—	—	—	—	—	—	—	—

※ : A “less than” symbol (<) indicates that the analysis result was less than the detection limit.

*1 : Detection limit 0.4 Bq/liter

*2 : Sampled after the commencement of discharge at 2PM

: Term of discharge of ALPS treated water (Management number: 23-2-2)

* : Monitored daily for the time being after the commencement of discharge

(Reference) Sea area monitoring history (6/25)

(Unit: Bq/liter)

	Sampling location	Frequency	October, 2023											
			7	8	9	9 Normal *1	10	11	12	12 Normal *1	13	14	15	16
In the vicinity of the discharge outlet	T-1	Once a week*	<5.8	<6.1	<7.2	0.40	<6.9	<6.5	<6.3	—	<6.5	<6.1	<5.5	<6.0
	T-2	Once a week*	<5.8	<6.1	<7.1	0.77	<6.9	<6.6	<6.3	—	<6.5	<6.2	<5.5	<6.0
	T-0-1	Once a week*	<6.7	<8.2	<7.9	1.4	—*2	<7.3	<7.3	—	<7.3	<8.7	<7.3	<7.8
	T-0-1A	Once a week*	9.4	<8.2	11	12	—*2	<7.3	14	—	11	<8.7	14	16
	T-0-2	Once a week*	<6.8	<8.1	<7.9	0.43	—*2	<7.3	<7.3	—	<7.3	<8.7	<7.3	<7.8
	T-0-3A	Once a week*	<5.8	<6.1	<7.2	<0.072	—*2	<6.8	<6.3	—	<6.5	<6.1	<5.6	<6.0
	T-0-3	Once a week*	<6.7	<8.2	<7.8	0.45	—*2	<7.3	<7.2	—	<7.2	<8.6	<7.3	<7.8
	T-A1	Once a week*	<6.4	<5.5	<6.7	0.43	—*2	<6.8	<8.7	—	<8.6	<6.2	<7.2	<7.2
	T-A2	Once a week*	<5.9	<5.5	<6.7	0.25	—*2	<6.8	<8.6	—	<8.6	<5.6	<7.2	<7.2
	T-A3	Once a week*	<5.8	<5.5	<6.8	<0.073	—*2	<6.8	<8.6	—	<8.6	<5.7	<7.2	<7.2
Outside the vicinity of the discharge outlet	T-D5	Once a week	—	—	—	—	—	—	<6.4	<0.070	—	—	—	—
	T-S3	Once a month	—	—	—	—	—	—	<6.4	<0.071	—	—	—	—
	T-S4	Once a month	—	—	—	—	—	—	<6.4	<0.070	—	—	—	—
	T-S8	Once a month	—	—	—	—	—	—	<6.5	0.065	—	—	—	—

※ : A “less than” symbol (<) indicates that the analysis result was less than the detection limit.

*1 : Detection limit 0.1 Bq/liter

*2 : Sampling suspended due to bad weather condition

: Term of discharge of ALPS treated water (Management number: 23-2-2)

* : Monitored daily for the time being after the commencement of discharge

(Reference) Sea area monitoring history (7/25)

(Unit: Bq/liter)

	Sampling location	Frequency	October, 2023											
			16 Normal *1	17	18	19	19 Normal *1	20	21	22	23 *2	23 Normal *1,2	24	25
In the vicinity of the discharge outlet	T-1	Once a week*	4.3	<6.5	<7.1	<7.2	—	<5.5	<5.6	<5.3	<6.5	1.3	<6.5	<5.8
	T-2	Once a week*	0.66	<6.5	<7.1	<7.1	—	<5.5	<5.6	<5.2	<6.5	0.80	<6.5	<5.8
	T-0-1	Once a week*	1.0	<6.7	<5.9	<8.3	—	<7.0	<6.8	<7.3	<6.7	1.3	<7.8	<7.5
	T-0-1A	Once a week*	14	<6.7	<5.8	<8.5	—	<7.0	22	16	<6.7	0.71	<7.7	<7.5
	T-0-2	Once a week*	1.2	<6.7	8.9	<8.4	—	<7.0	<6.8	<7.3	<6.7	0.40	<7.7	<7.5
	T-0-3A	Once a week*	0.74	<6.5	<7.1	<7.1	—	<5.5	<5.6	<5.3	<6.5	<0.33	<6.5	<5.8
	T-0-3	Once a week*	1.0	<6.7	<6.7	<8.4	—	<7.0	<6.8	<7.3	<6.7	1.0	<7.7	<7.5
	T-A1	Once a week*	0.50	<8.3	<7.2	<7.5	—	<7.5	<8.5	<5.7	<6.8	0.37	<7.5	<7.8
	T-A2	Once a week*	0.56	<8.3	<7.2	<7.5	—	<7.5	<8.4	<5.7	<6.9	<0.31	<7.5	<7.8
	T-A3	Once a week*	0.80	<8.3	<7.2	<7.5	—	<7.5	<8.5	<5.7	<6.8	<0.32	<7.5	<7.8
Outside the vicinity of the discharge outlet	T-D5	Once a week	—	—	—	<7.5	<0.34	—	—	—	<6.9	<0.32	—	—
	T-S3	Once a month	—	—	—	—	—	—	—	—	—	—	—	—
	T-S4	Once a month	—	—	—	—	—	—	—	—	—	—	—	—
	T-S8	Once a month	—	—	—	—	—	—	—	—	—	—	—	—

※ : A “less than” symbol (<) indicates that the analysis result was less than the detection limit.

*1 : Detection limit 0.4 Bq/liter

*2 : Sampled before 9AM, prior to the completion of the discharge

: Term of discharge of ALPS treated water (Management number: 23-2-2)

* : Monitored daily for the time being after the commencement of discharge

(Reference) Sea area monitoring history (8/25)

(Unit: Bq/liter)

	Sampling location	Frequency	October, 2023						November, 2023					
			26	27	28	29	30	31	1	1 Normal *2	2 *3	2 Normal *2,3	3	4
In the vicinity of the discharge outlet	T-1	Once a week*	<6.5	<6.4	<7.2	<6.8	<6.4	<7.1	<7.9	<0.32	<6.0	0.35	<8.1	<8.0
	T-2	Once a week*	<6.6	<6.3	<7.2	<6.8	<6.4	<7.1	<7.9	<0.33	<8.3	0.36	<8.1	<8.2
	T-0-1	Once a week*	<7.6	<7.8	<8.3	<7.8	—*1	—*1	<7.8	<0.35	<8.0	<0.36	<6.2	<6.3
	T-0-1A	Once a week*	<7.7	<7.8	<8.3	<7.9	—*1	—*1	<7.8	<0.34	<8.0	6.9	7.1	<6.2
	T-0-2	Once a week*	<7.6	<7.8	<8.3	<7.9	—*1	—*1	<7.8	<0.33	<8.1	<0.37	<6.2	<6.2
	T-0-3A	Once a week*	<6.6	<6.3	<7.3	<6.9	—*1	—*1	<7.9	<0.32	<5.4	<0.26	<8.1	<8.2
	T-0-3	Once a week*	<7.6	<7.8	<8.3	<7.9	—*1	—*1	<7.8	<0.34	<8.0	<0.36	<6.2	<6.2
	T-A1	Once a week*	<6.2	<6.6	<6.6	<6.6	—*1	—*1	<6.6	<0.31	<8.2	<0.31	<5.7	<9.2
	T-A2	Once a week*	<6.2	<6.5	<6.6	<6.6	—*1	—*1	<6.4	<0.31	<8.2	<0.30	<5.7	<9.2
	T-A3	Once a week*	<6.2	<6.6	<6.6	<6.6	—*1	—*1	<6.6	<0.32	<8.2	<0.31	<5.7	<9.2
Outside the vicinity of the discharge outlet	T-D5	Once a week	—	—	—	—	—	—	<7.9	<0.33	—	—	—	—
	T-S3	Once a month	—	—	—	—	—	—	—	—	—	—	—	—
	T-S4	Once a month	—	—	—	—	—	—	—	—	—	—	—	—
	T-S8	Once a month	—	—	—	—	—	—	—	—	—	—	—	—

※ : A “less than” symbol (<) indicates that the analysis result was less than the detection limit.

*1 : Sampling suspended due to bad weather condition

*2 : Detection limit 0.4 Bq/liter

*3 : Sampled after the commencement of discharge at 2PM

: Term of discharge of ALPS treated water (Management number: 23-3-3)

* : Monitored daily for the time being after the commencement of discharge

(Reference) Sea area monitoring history (9/25)

(Unit: Bq/liter)

	Sampling location	Frequency	November, 2023											
			5	6	6 Normal *1	7	8	8 Normal *3	9	9 Normal *1	10	11	12	13
In the vicinity of the discharge outlet	T-1	Once a week*	<7.6	<5.6	<0.34	<6.9	<5.5	—	<5.5	—	<6.9	<5.8	<7.0	<6.3
	T-2	Once a week*	<7.5	<5.5	0.38	<6.9	<5.5	—	<5.5	—	<7.0	<5.8	<6.9	<6.3
	T-0-1	Once a week*	<7.5	<7.2	0.36	—*2	<6.7	—	<6.4	—	<8.1	—*2	<4.7	<9.0
	T-0-1A	Once a week*	<7.6	9.0	9.5	—*2	<6.8	—	<6.4	—	11	—*2	<4.6	<9.0
	T-0-2	Once a week*	<7.5	<7.1	<0.31	—*2	<6.7	—	<8.4	—	<8.1	—*2	<4.7	<8.9
	T-0-3A	Once a week*	<7.6	<5.4	0.54	—*2	<5.5	—	<5.6	—	<7.0	—*2	<6.9	<6.3
	T-0-3	Once a week*	<7.5	<7.1	<0.31	—*2	<6.7	—	<6.4	—	<8.1	—*2	<5.1	<9.0
	T-A1	Once a week*	<5.7	<6.5	<0.39	—*2	<7.2	—	<7.5	—	<6.9	—*2	<7.8	<7.6
	T-A2	Once a week*	<5.7	<6.5	<0.38	—*2	<7.2	—	<7.5	—	<6.9	—*2	<7.8	<7.6
	T-A3	Once a week*	<5.7	<6.5	<0.39	—*2	<7.2	—	<7.6	—	<6.8	—*2	<7.8	<7.6
Outside the vicinity of the discharge outlet	T-D5	Once a week	—	—	—	—	—	—	<7.5	<0.34	—	—	—	—
	T-S3	Once a month	—	—	—	—	<7.7	0.12	—	—	—	—	—	—
	T-S4	Once a month	—	—	—	—	<7.7	0.10	—	—	—	—	—	—
	T-S8	Once a month	—	—	—	—	<7.8	0.097	—	—	—	—	—	—

※ : A “less than” symbol (<) indicates that the analysis result was less than the detection limit.

*1 : Detection limit 0.4 Bq/liter

*2 : Sampling suspended due to bad weather condition

*3 : Detection limit 0.1 Bq/liter

: Term of discharge of ALPS treated water (Management number: 23-3-3)

* : Monitored daily for the time being after the commencement of discharge

(Reference) Sea area monitoring history (10/25)

(Unit: Bq/liter)

	Sampling location	Frequency	November, 2023											
			13 Normal *1	14	15	15 Normal *1	16	17	18	19	20 *3	20 Normal *3,4	21	21 Normal *4
In the vicinity of the discharge outlet	T-1	Once a week*	0.25	<5.8	<6.9	—	<8.8	<7.8	<9.3	<6.3	<7.0	1.7	<6.6	—
	T-2	Once a week*	0.25	<5.9	<6.9	—	<8.6	<7.7	<9.3	<6.2	<7.1	0.60	<6.5	—
	T-0-1	Once a week*	0.15	<6.6	<6.2	—	<7.1	<7.9	—*2	<7.4	<8.1	1.2	<7.0	—
	T-0-1A	Once a week*	0.14	7.2	10	—	<7.3	<7.9	—*2	<7.4	<8.1	1.0	<7.0	—
	T-0-2	Once a week*	0.17	<6.5	<6.2	—	7.9	<7.8	—*2	<7.4	<8.1	0.77	<7.1	—
	T-0-3A	Once a week*	0.49	<5.7	<6.9	—	<8.8	<8.0	—*2	<6.3	<7.0	0.87	<6.7	—
	T-0-3	Once a week*	0.44	<6.6	<6.2	—	<7.3	<7.9	—*2	<7.3	<8.1	0.92	<7.2	—
	T-A1	Once a week*	0.082	<6.8	<8.6	—	<8.8	<5.5	—*2	<8.6	<7.3	1.5	<9.0	—
	T-A2	Once a week*	0.16	<6.8	<8.8	—	<8.6	<5.5	—*2	<8.8	<7.2	0.60	<8.9	—
	T-A3	Once a week*	0.15	<7.0	<8.6	—	<8.8	<5.5	—*2	<8.8	<7.2	0.37	<8.9	—
Outside the vicinity of the discharge outlet	T-D5	Once a week	—	—	<8.6	0.12	—	—	—	—	—	—	<7.2	<0.33
	T-S3	Once a month	—	—	—	—	—	—	—	—	—	—	—	—
	T-S4	Once a month	—	—	—	—	—	—	—	—	—	—	—	—
	T-S8	Once a month	—	—	—	—	—	—	—	—	—	—	—	—

※ : A "less than" symbol (<) indicates that the analysis result was less than the detection limit.

*1 : Detection limit 0.1 Bq/liter

*2 : Sampling suspended due to bad weather condition

*3 : Sampled before 8AM, prior to the completion of the discharge

*4 : Detection limit 0.4 Bq/liter

■ : Term of discharge of ALPS treated water (Management number: 23-3-3)

* : Monitored daily for the time being after the commencement of discharge

(Reference) Sea area monitoring history (11/25)

(Unit: Bq/liter)

	Sampling location	Frequency	November, 2023										December, 2023	
			22	23	24	25	26	27	27 Normal *1	28	29	30	1	2
In the vicinity of the discharge outlet	T-1	Once a week*	<6.5	<5.5	<5.3	<6.3	<7.1	<5.7	<0.34	<5.5	<6.0	<7.4	<4.9	<5.5
	T-2	Once a week*	<6.4	<5.5	<5.2	<6.3	<7.1	<5.8	<0.34	<5.5	<6.0	<7.4	<4.9	<5.5
	T-0-1	Once a week*	<7.1	<6.4	<7.2	<7.3	<8.1	<6.4	0.38	<6.8	<5.9	<7.3	<7.3	<6.8
	T-0-1A	Once a week*	<7.0	<6.4	<7.2	<7.3	<8.2	<6.5	<0.33	<6.7	<5.8	<7.2	<7.2	<6.7
	T-0-2	Once a week*	<7.0	<6.5	<7.3	<7.3	<8.1	<6.5	<0.26	<6.7	<5.8	<7.3	<7.2	<6.7
	T-0-3A	Once a week*	<6.6	<5.5	<5.2	<6.3	<7.1	<5.7	<0.33	<5.5	<6.0	<7.4	<4.9	<5.5
	T-0-3	Once a week*	<7.1	<6.5	<7.3	<7.3	<8.2	<6.4	<0.33	<6.8	<5.9	<7.3	<7.2	<6.7
	T-A1	Once a week*	<7.4	<7.2	<5.7	<5.2	<5.7	<7.8	<0.36	<6.7	<5.9	<6.8	<8.8	<8.1
	T-A2	Once a week*	<7.7	<7.2	<5.7	<5.2	<5.6	<7.8	<0.36	<6.7	<5.9	<6.8	<8.8	<8.1
	T-A3	Once a week*	<7.6	<7.2	<5.6	<5.2	<5.7	<7.8	<0.36	<6.7	<5.9	<6.8	<8.8	<8.1
Outside the vicinity of the discharge outlet	T-D5	Once a week	—	—	—	—	—	<7.8	<0.34	—	—	—	—	—
	T-S3	Once a month	—	—	—	—	—	—	—	—	—	—	—	—
	T-S4	Once a month	—	—	—	—	—	—	—	—	—	—	—	—
	T-S8	Once a month	—	—	—	—	—	—	—	—	—	—	—	—

※ : A “less than” symbol (<) indicates that the analysis result was less than the detection limit.

*1 : Detection limit 0.4 Bq/liter

* : Monitored daily for the time being after the commencement of discharge

[Reference] Sea area monitoring history (12/25)

(Unit: Bq/liter)

	Sampling location	Frequency	December, 2023											
			3	4	4 Normal *1	5	6	7	7 Normal *2	8	9	9 Normal *1	10	11
In the vicinity of the discharge outlet	T-1	Once a week*	<6.7	<6.0	<0.31	<6.3	<5.8	<5.0	—	<5.2	<6.1	—	<6.2	<6.3
	T-2	Once a week*	<6.7	<6.1	<0.31	<6.2	<5.7	<5.0	—	<5.2	<6.1	—	<6.3	<6.2
	T-0-1	Once a week*	<5.1	<5.8	<0.35	<7.5	<8.0	<7.3	—	<6.3	<8.3	—	<4.8	<6.5
	T-0-1A	Once a week*	<5.1	<5.8	<0.33	<7.5	<8.0	<7.3	—	<6.3	<8.4	—	<6.2	<6.5
	T-0-2	Once a week*	<5.1	<5.8	<0.30	<7.5	<7.9	<7.2	—	<6.3	<8.5	—	<4.9	<6.5
	T-0-3A	Once a week*	<6.9	<6.0	<0.33	<6.2	<5.9	<5.0	—	<5.2	<6.0	—	<6.2	<6.3
	T-0-3	Once a week*	<5.1	<5.8	<0.33	<7.4	<8.0	<7.2	—	<6.3	<8.3	—	<7.4	<6.5
	T-A1	Once a week*	<6.1	<8.1	<0.36	<8.4	<5.2	<6.5	—	<8.6	<7.9	—	<6.8	<5.2
	T-A2	Once a week*	<6.1	<8.1	<0.36	<8.3	<7.5	<6.5	—	<8.6	<7.8	—	<6.8	<5.3
T-A3	Once a week*	<6.1	<8.1	<0.36	<8.3	<5.3	<6.5	—	<8.7	<7.9	—	<6.9	<5.3	
Outside the vicinity of the discharge outlet	T-D5	Once a week	—	—	—	—	—	—	—	—	<6.0	<0.34	—	—
	T-S3	Once a month	—	—	—	—	—	—	—	—	—	—	—	—
	T-S4	Once a month	—	—	—	—	—	—	—	—	—	—	—	—
	T-S8	Once a month	—	—	—	—	—	<6.6	0.057	—	—	—	—	—

※ : A “less than” symbol (<) indicates that the analysis result was less than the detection limit.

*1 : Detection limit 0.4 Bq/liter

*2 : Detection limit 0.1 Bq/liter

* : Monitored daily for the time being after the commencement of discharge

(Reference) Sea area monitoring history (13/25)



(Unit: Bq/liter)

	Sampling location	Frequency	December, 2023											
			11 Normal *1	12	13	14	14 Normal *1	15	16	17	18	18 Normal *3	19	19 Normal *3
In the vicinity of the discharge outlet	T-1	Once a week*	0.15	<7.0	<6.7	<6.7	—	<6.1	<6.9	<6.5	<5.8	<0.36	<5.7	—
	T-2	Once a week*	0.12	<7.0	<6.7	<6.7	—	<6.1	<6.9	<6.5	<5.8	<0.36	<5.7	—
	T-0-1	Once a week*	0.076	—*2	—*2	<7.0	—	<5.9	<6.8	—*2	<5.8	<0.34	<8.2	—
	T-0-1A	Once a week*	<0.073	—*2	—*2	<5.5	—	<5.8	<6.7	—*2	<5.9	<0.35	<8.2	—
	T-0-2	Once a week*	0.083	—*2	—*2	<5.9	—	<5.9	<6.8	—*2	<5.9	<0.33	<8.2	—
	T-0-3A	Once a week*	<0.074	—*2	—*2	<6.7	—	<6.1	<6.9	—*2	<5.7	<0.34	<5.8	—
	T-0-3	Once a week*	<0.075	—*2	—*2	<8.1	—	<5.9	<7.0	—*2	<5.9	<0.35	<8.2	—
	T-A1	Once a week*	0.095	—*2	—*2	<8.1	—	<6.5	<7.5	—*2	<6.8	<0.36	<7.5	—
	T-A2	Once a week*	0.081	—*2	—*2	<8.1	—	<6.5	<7.5	—*2	<6.8	<0.36	<7.5	—
	T-A3	Once a week*	0.13	—*2	—*2	<8.1	—	<6.5	<7.5	—*2	<6.8	<0.36	<7.5	—
Outside the vicinity of the discharge outlet	T-D5	Once a week	—	—	—	<8.1	0.079	—	—	—	—	—	<7.5	<0.34
	T-S3	Once a month	—	—	—	—	—	—	—	—	—	—	—	—
	T-S4	Once a month	—	—	—	—	—	—	—	—	—	—	—	—
	T-S8	Once a month	—	—	—	—	—	—	—	—	—	—	—	—

※ : A “less than” symbol (<) indicates that the analysis result was less than the detection limit.

*1 : Detection limit 0.1 Bq/liter

*2 : Sampling suspended due to bad weather condition

*3 : Detection limit 0.4 Bq/liter

* : Monitored daily for the time being after the commencement of discharge

(Reference) Sea area monitoring history (14/25)

○ For quick tritium measurements taken in the vicinity of the discharge outlet, we changed the frequency in order to place importance on the discharge period from December 26, 2023, and have been continuing the monitoring.

(Unit: Bq/liter)

	Sampling location	Frequency	December, 2023									January, 2024		
			20	20 Normal *1	21	22	23	24	25	25 Normal *2	26	1	3	3 Normal *2
In the vicinity of the discharge outlet	T-1	Once a week*	<6.7	—	<7.2	<6.6	<7.0	<7.1	<6.1	<0.33	<5.0	<5.6	—	<0.33
	T-2	Once a week*	<6.7	—	<7.1	<6.6	<7.0	<7.2	<6.1	<0.33	<4.9	<5.5	—	<0.33
	T-0-1	Once a week*	<7.5	—	<8.0	<7.1	<6.6	<7.3	<7.3	<0.27	<6.9	—*3	<6.5	<0.27
	T-0-1A	Once a week*	<7.5	—	<8.0	<7.1	<6.5	<7.3	<7.3	<0.34	<5.8	—*3	<6.5	<0.35
	T-0-2	Once a week*	<7.5	—	<8.0	<7.1	<6.6	<7.3	<7.3	<0.31	<6.8	—*3	<6.5	<0.32
	T-0-3A	Once a week*	<6.5	—	<7.3	<6.6	<7.0	<7.2	<6.1	<0.34	<5.0	—*3	<8.1	<0.34
	T-0-3	Once a week*	<7.5	—	<8.1	<7.1	<6.5	<7.4	<7.4	<0.34	<7.0	—*3	<6.5	<0.34
	T-A1	Once a week*	<6.5	—	<6.9	<6.1	<6.2	<7.3	<7.8	<0.36	<9.2	—*3	<8.1	<0.37
	T-A2	Once a week*	<6.5	—	<6.9	<6.2	<6.2	<7.2	<7.9	<0.36	<9.2	—*3	<8.1	<0.37
T-A3	Once a week*	<6.5	—	<6.9	<6.2	<6.2	<7.2	<7.8	<0.36	<9.2	—*3	<8.2	<0.37	
Outside the vicinity of the discharge outlet	T-D5	Once a week	—	—	—	—	—	—	<7.9	<0.33	—	—	—	—
	T-S3	Once a month	<6.7	0.12	—	—	—	—	—	—	—	—	—	—
	T-S4	Once a month	<6.7	0.075	—	—	—	—	—	—	—	—	—	—
	T-S8	Once a month	—	—	—	—	—	—	—	—	—	—	—	—

※ : A “less than” symbol (<) indicates that the analysis result was less than the detection limit.

*1 : Detection limit 0.1 Bq/liter

*2 : Detection limit 0.4 Bq/liter

*3 : Sampling suspended due to bad weather condition

* : Monitored daily for the time being after the commencement of discharge

Monitored daily for the time being after the commencement of discharge. In order to place importance on the discharge period, frequency of the measurement was changed from December 26, 2023 as follows;

4 locations in the vicinity of the discharge outlet (T-0-1, T-0-1A, T-0-2, T-A2) : Conduct daily during the discharge period and for one week following the completion of discharge

Conduct once a week outside the discharge period, excluding one week following the completion of discharge

Other 6 locations (T-1, T-2, T-0-3A, T-0-3, T-A1, T-A3) : Conduct twice a week during the discharge period and for one week following the completion of discharge

Conduct once a month outside the discharge period, excluding one week following the completion of discharge

(Reference) Sea area monitoring history (15/25)

(Unit: Bq/liter)

	Sampling location	Frequency	January, 2024											
			6	6 Normal *1	8	8 Normal *2	9	9 Normal *2	11	11 Normal *2	15	15 Normal *1	17	17 Normal *2
In the vicinity of the discharge outlet	T-1	Twice a week*	—	—	—	being measured	—	—	—	—	—	<0.37	—	—
	T-2	Twice a week*	—	—	—	being measured	—	—	—	—	—	<0.37	—	—
	T-0-1	Once a day*	—	—	<6.5	0.045	—	—	—	—	<6.2	<0.27	—	—
	T-0-1A	Once a day*	—	—	<7.2	0.21	—	—	—	—	<4.2	<0.33	—	—
	T-0-2	Once a day*	—	—	<6.6	being measured	—	—	—	—	<6.2	<0.31	—	—
	T-0-3A	Twice a week*	—	—	—	0.23	—	—	—	—	—	<0.33	—	—
	T-0-3	Twice a week*	—	—	—	0.16	—	—	—	—	—	<0.33	—	—
	T-A1	Twice a week*	—	—	—	<0.071	—	—	—	—	—	<0.36	—	—
	T-A2	Once a day*	—	—	<7.6	0.11	—	—	—	—	<4.2	<0.36	—	—
	T-A3	Twice a week*	—	—	—	0.079	—	—	—	—	—	<0.36	—	—
Outside the vicinity of the discharge outlet	T-D5	Once a week	<8.1	<0.35	—	—	<7.0	0.097	—	—	—	—	—	—
	T-S3	Once a month	—	—	—	—	—	—	—	—	—	—	<7.8	0.14
	T-S4	Once a month	—	—	—	—	—	—	—	—	—	—	<7.7	<0.068
	T-S8	Once a month	—	—	—	—	—	—	<6.8	0.053	—	—	—	—

※ : A “less than” symbol (<) indicates that the analysis result was less than the detection limit.

*1 : Detection limit 0.4 Bq/liter

*2 : Detection limit 0.1 Bq/liter

* : 4 locations in the vicinity of the discharge outlet : Conduct daily during the discharge period and for one week following the completion of discharge
 Conduct once a week outside the discharge period, excluding one week following the completion of discharge

Other 6 locations : Conduct twice a week during the discharge period and for one week following the completion of discharge
 Conduct once a month outside the discharge period, excluding one week following the completion of discharge

(Reference) Sea area monitoring history (16/25)



(Unit: Bq/liter)

	Sampling location	Frequency	January, 2024				February, 2024							
			24	24 Normal *1	29	29 Normal *1	5	5 Normal *1	7	7 Normal *2	12	12 Normal *2	13	13 Normal *2
In the vicinity of the discharge outlet	T-1	Twice a week*	—	<0.37	—	<0.34	<6.1	<0.33	—	—	—	being measured	—	—
	T-2	Twice a week*	—	<0.37	—	<0.35	<6.1	<0.33	—	—	—	being measured	—	—
	T-0-1	Once a day*	<7.8	<0.37	<5.9	<0.29	<7.7	<0.34	—	—	<7.0	0.048	—	—
	T-0-1A	Once a day*	<7.3	<0.34	<7.6	<0.33	<7.6	<0.32	—	—	<6.6	0.081	—	—
	T-0-2	Once a day*	<7.7	<0.32	<8.2	<0.38	<7.6	<0.36	—	—	<7.1	being measured	—	—
	T-0-3A	Twice a week*	—	<0.33	—	<0.33	<6.0	<0.32	—	—	—	<0.072	—	—
	T-0-3	Twice a week*	—	<0.33	—	<0.33	<7.5	<0.34	—	—	—	<0.071	—	—
	T-A1	Twice a week*	—	<0.37	—	<0.35	<7.0	<0.36	—	—	—	<0.073	—	—
	T-A2	Once a day*	<7.3	<0.37	<7.6	<0.35	<6.8	<0.36	—	—	<6.7	<0.068	—	—
	T-A3	Twice a week*	—	<0.37	—	<0.35	<6.9	<0.36	—	—	—	<0.068	—	—
Outside the vicinity of the discharge outlet	T-D5	Once a week	—	—	<6.9	<0.33	<6.1	<0.33	—	—	—	—	<8.1	<0.072
	T-S3	Once a month	—	—	—	—	—	—	<6.2	<0.068	—	—	—	—
	T-S4	Once a month	—	—	—	—	—	—	<6.1	0.071	—	—	—	—
	T-S8	Once a month	—	—	—	—	—	—	—	—	—	—	—	—

※ : A “less than” symbol (<) indicates that the analysis result was less than the detection limit.

*1 : Detection limit 0.4 Bq/liter

*2 : Detection limit 0.1 Bq/liter

* : 4 locations in the vicinity of the discharge outlet : Conduct daily during the discharge period and for one week following the completion of discharge
 Conduct once a week outside the discharge period, excluding one week following the completion of discharge
 Other 6 locations : Conduct twice a week during the discharge period and for one week following the completion of discharge
 Conduct once a month outside the discharge period, excluding one week following the completion of discharge

(Reference) Sea area monitoring history (17/25)

(Unit: Bq/liter)

	Sampling location	Frequency	February, 2024								March, 2024			
			19	19 Normal *1	21	21 Normal *1	26	26 Normal *1	28	29	1	1 Normal *1	2	3
In the vicinity of the discharge outlet	T-1	Twice a week*	—	<0.32	—	—	—	<0.34	—*2	<6.9	<9.3	<0.34	—	—
	T-2	Twice a week*	—	<0.31	—	—	—	<0.33	—*2	<6.8	<9.2	<0.33	—	—
	T-0-1	Once a day*	<6.6	<0.27	—	—	<7.9	<0.27	—*2	—*2	<6.5	<0.35	—*2	<7.3
	T-0-1A	Once a day*	<6.4	<0.32	—	—	<7.9	<0.33	—*2	—*2	<6.4	<0.34	—*2	12
	T-0-2	Once a day*	<6.5	<0.37	—	—	<7.9	<0.36	—*2	—*2	<9.5	<0.36	—*2	<7.8
	T-0-3A	Twice a week*	—	<0.33	—	—	—	<0.32	—*2	—*2	<8.2	<0.34	—	—
	T-0-3	Twice a week*	—	<0.33	—	—	—	<0.32	—*2	—*2	<6.6	<0.34	—	—
	T-A1	Twice a week*	—	<0.36	—	—	—	<0.35	—*2	—*2	<7.8	<0.37	—	—
	T-A2	Once a day*	<6.8	<0.36	—	—	<7.9	<0.35	—*2	—*2	<7.8	<0.37	—*2	<8.2
	T-A3	Twice a week*	—	<0.36	—	—	—	<0.35	—*2	—*2	<7.8	<0.37	—	—
Outside the vicinity of the discharge outlet	T-D5	Once a week	—	—	<5.5	<0.34	—	—	—*2	—	—*2	—*2	—	—
	T-S3	Once a month	—	—	—	—	—	—	—	—	—	—	—	—
	T-S4	Once a month	—	—	—	—	—	—	—	—	—	—	—	—
	T-S8	Once a month	—	—	—	—	—*2	—*2	—	—	—	—	—	—

※ : A "less than" symbol (<) indicates that the analysis result was less than the detection limit.

*1 : Detection limit 0.4 Bq/liter

*2 : Sampling suspended due to bad weather condition

: Term of discharge of ALPS treated water (Management number: 23-4-4)

* : 4 locations in the vicinity of the discharge outlet : Conduct daily during the discharge period and for one week following the completion of discharge
 Conduct once a week outside the discharge period, excluding one week following the completion of discharge
 Other 6 locations : Conduct twice a week during the discharge period and for one week following the completion of discharge
 Conduct once a month outside the discharge period, excluding one week following the completion of discharge

(Reference) Sea area monitoring history (18/25)

(Unit: Bq/liter)

	Sampling location	Frequency	March, 2024											
			4	4 Normal *1,2	5	6	7	8	9	10	11	11 Normal *2	12	13
In the vicinity of the discharge outlet	T-1	Twice a week*	<7.4	0.50	—	—	<8.1	<7.2	<6.7	<6.4	<6.1	being measured	—	—
	T-2	Twice a week*	<7.4	0.33	—	—	<8.1	<7.4	<6.7	<6.3	<6.1	being measured	—	—
	T-0-1	Once a day*	<9.0	<0.36	<7.9	—*3	—*3	—*3	—*3	—*3	<6.8	0.51	<8.8	—*3
	T-0-1A	Once a day*	<6.9	<0.34	16	—*3	—*3	—*3	—*3	—*3	9.5	being measured	<7.5	—*3
	T-0-2	Once a day*	<9.0	<0.36	<8.0	—*3	—*3	—*3	—*3	—*3	<6.1	being measured	<7.6	—*3
	T-0-3A	Twice a week*	<9.0	3.6	—	—	—*3	—*3	—*3	—*3	<6.8	<0.066	—	—
	T-0-3	Twice a week*	<9.1	1.1	—	—	—*3	—*3	—*3	—*3	<6.9	0.086	—	—
	T-A1	Twice a week*	<6.8	0.58	—	—	—*3	—*3	—*3	—*3	<7.1	<0.072	—	—
	T-A2	Once a day*	<6.9	<0.36	<7.9	—*3	—*3	—*3	—*3	—*3	<7.0	0.10	<7.5	—*3
	T-A3	Twice a week*	<6.9	<0.36	—	—	—*3	—*3	—*3	—*3	<6.9	0.11	—	—
Outside the vicinity of the discharge outlet	T-D5	Once a week	<8.8	<0.33	—	—	—	—	—	—	<6.9	<0.067	—	—
	T-S3	Once a month	<6.8	being measured	—	—	—	—	—	—	—	—	—	—
	T-S4	Once a month	<6.9	being measured	—	—	—	—	—	—	—	—	—	—
	T-S8	Once a month	<9.1	0.11	—	—	—	—	—	—	—	—	—	—

※ : A "less than" symbol (<) indicates that the analysis result was less than the detection limit.

*1 : Detection limit 0.4 Bq/liter

*2 : Detection limit 0.1 Bq/liter

*3 : Sampling suspended due to bad weather condition

: Term of discharge of ALPS treated water (Management number: 23-4-4)

* : 4 locations in the vicinity of the discharge outlet : Conduct daily during the discharge period and for one week following the completion of discharge
 Conduct once a week outside the discharge period, excluding one week following the completion of discharge
 Other 6 locations : Conduct twice a week during the discharge period and for one week following the completion of discharge
 Conduct once a month outside the discharge period, excluding one week following the completion of discharge

(Reference) Sea area monitoring history (19/25)

(Unit: Bq/liter)

	Sampling location	Frequency	March, 2024											
			14	15 Normal *1	16	17 Normal *2	18	19	19 Normal *4	20	21	22	23	24
In the vicinity of the discharge outlet	T-1	Twice a week*	<8.0	—	—	—	—*3	<6.7	<0.32	—	<6.3	—	<6.2	—
	T-2	Twice a week*	<8.0	—	—	—	—*3	<6.8	<0.33	—	<6.4	—	<6.1	—
	T-0-1	Once a day*	<7.1	<6.6	<7.1	<6.2	—*3	<5.8	<0.27	<7.6	—*3	—*3	—*3	<7.6
	T-0-1A	Once a day*	<6.9	<6.1	<7.2	<7.7	—*3	<5.9	<0.34	<7.6	—*3	—*3	—*3	<5.5
	T-0-2	Once a day*	<6.9	<6.1	<7.3	<7.7	—*3	<5.7	<0.29	<7.6	—*3	—*3	—*3	<7.4
	T-0-3A	Twice a week*	<8.3	—	—	—	—*3	<5.9	<0.34	—	—*3	—*3	—*3	<5.4
	T-0-3	Twice a week*	<7.0	—	—	—	—*3	<5.9	<0.33	—	—*3	—*3	—*3	<7.5
	T-A1	Twice a week*	<8.4	—	—	—	—*3	<7.6	<0.36	—	—*3	—*3	—*3	<6.9
	T-A2	Once a day*	<8.4	<6.1	<7.3	<7.6	—*3	<7.5	<0.36	<7.5	—*3	—*3	—*3	<6.7
T-A3	Twice a week*	<8.3	—	—	—	—*3	<7.5	<0.36	—	—*3	—*3	—*3	<6.9	
Outside the vicinity of the discharge outlet	T-D5	Once a week	—	—	—	—	—*3	<6.9	<0.33	—	—	—	—	—
	T-S3	Once a month	—	—	—	—	—	—	—	—	—	—	—	—
	T-S4	Once a month	—	—	—	—	—	—	—	—	—	—	—	—
	T-S8	Once a month	—	—	—	—	—	—	—	—	—	—	—	—

※ : A “less than” symbol (<) indicates that the analysis result was less than the detection limit.

*1 : Sampled during the suspension due to the earthquake

*2 : Sampled before 8AM, prior to the completion of the discharge

*3 : Sampling suspended due to bad weather condition

*4 : Detection limit 0.4 Bq/liter

* : 4 locations in the vicinity of the discharge outlet : Conduct daily during the discharge period and for one week following the completion of discharge
 Conduct once a week outside the discharge period, excluding one week following the completion of discharge

Other 6 locations : Conduct twice a week during the discharge period and for one week following the completion of discharge
 Conduct once a month outside the discharge period, excluding one week following the completion of discharge

(Reference) Sea area monitoring history (20/25)



(Unit: Bq/liter)

	Sampling location	Frequency	March, 2024				April, 2024							
			25	25 Normal *1,2	28	28 Normal *1	1	1 Normal *1	2	2 Normal *1	8	8 Normal *2	11	11 Normal *2
In the vicinity of the discharge outlet	T-1	Twice a week*	<5.8	<0.33	—	—	<6.7	<0.32	—	—	—	being measured	—	—
	T-2	Twice a week*	<5.9	<0.34	—	—	<6.8	<0.32	—	—	—	being measured	—	—
	T-0-1	Once a day*	<6.4	<0.33	—	—	<8.0	<0.34	—	—	<5.7	being measured	—	—
	T-0-1A	Once a day*	<7.2	<0.33	—	—	<8.0	<0.32	—	—	<7.0	being measured	—	—
	T-0-2	Once a day*	<6.5	<0.30	—	—	<8.1	<0.31	—	—	<5.7	being measured	—	—
	T-0-3A	Twice a week*	<6.8	<0.33	—	—	<6.9	<0.33	—	—	—	being measured	—	—
	T-0-3	Twice a week*	<7.2	<0.33	—	—	<8.0	<0.33	—	—	—	being measured	—	—
	T-A1	Twice a week*	<6.7	0.39	—	—	<6.9	0.34	—	—	—	<0.073	—	—
	T-A2	Once a day*	<6.7	<0.34	—	—	<6.9	<0.34	—	—	<7.0	<0.073	—	—
	T-A3	Twice a week*	<7.2	0.34	—	—	<7.0	<0.34	—	—	—	<0.073	—	—
Outside the vicinity of the discharge outlet	T-D5	Once a week	—	—	<5.9	<0.32	—	—	<7.5	<0.33	<5.7	being measured	—	—
	T-S3	Once a month	—	—	—	—	—	—	—	—	—	—	<6.5	being measured
	T-S4	Once a month	—	—	—	—	—	—	—	—	—	—	<6.6	being measured
	T-S8	Once a month	<7.1	being measured	—	—	—	—	—	—	—	—	—	—

※ : A “less than” symbol (<) indicates that the analysis result was less than the detection limit.

*1 : Detection limit 0.4 Bq/liter

*2 : Detection limit 0.1 Bq/liter

* : 4 locations in the vicinity of the discharge outlet : Conduct daily during the discharge period and for one week following the completion of discharge
 Conduct once a week outside the discharge period, excluding one week following the completion of discharge

Other 6 locations : Conduct twice a week during the discharge period and for one week following the completion of discharge
 Conduct once a month outside the discharge period, excluding one week following the completion of discharge

(Reference) Sea area monitoring history (21/25)

(Unit: Bq/liter)

	Sampling location	Frequency	April, 2024											
			15	15 Normal *1,2	19 *3	19 Normal *1,3	20	20 Normal *1	21	22	22 Normal *1	23	23 Normal *2	24
In the vicinity of the discharge outlet	T-1	Twice a week*	—	0.33	<6.0	being measured	—	—	—	<9.6	<0.32	—	—	—
	T-2	Twice a week*	—	<0.30	<6.1	being measured	—	—	—	<9.4	<0.32	—	—	—
	T-0-1	Once a day*	<7.7	<0.32	—*4	—*4	<7.8	<0.33	<7.5	<6.5	<0.32	<7.6	—	<5.7
	T-0-1A	Once a day*	<7.7	<0.33	—*4	—*4	<6.9	<0.34	<7.5	<6.6	<0.34	<5.6	—	<5.7
	T-0-2	Once a day*	<7.7	<0.34	—*4	—*4	<7.8	1.3	<7.5	<6.5	2.5	<5.6	—	<5.8
	T-0-3A	Twice a week*	—	<0.34	—*4	—*4	<6.9	0.91	—	<7.1	<0.34	—	—	—
	T-0-3	Twice a week*	—	<0.33	—*4	—*4	<7.9	0.70	—	<6.5	<0.34	—	—	—
	T-A1	Twice a week*	—	<0.35	—*4	—*4	<6.4	<0.36	—	<6.9	<0.35	—	—	—
	T-A2	Once a day*	<7.7	<0.35	—*4	—*4	<6.6	2.9	<7.5	<7.0	0.79	<5.6	—	<6.4
	T-A3	Twice a week*	—	<0.35	—*4	—*4	<6.4	<0.36	—	<7.0	3.2	—	—	—
Outside the vicinity of the discharge outlet	T-D5	Once a week	<8.0	<0.33	—	—	—	—	—	<9.4	being measured	—	—	—
	T-S3	Once a month	—	—	—	—	—	—	—	—	—	<6.6	being measured	—
	T-S4	Once a month	—	—	—	—	—	—	—	—	—	<6.5	being measured	—
	T-S8	Once a month	<8.0	being measured	—	—	—	—	—	—	—	<6.5	being measured	—

※ : A “less than” symbol (<) indicates that the analysis result was less than the detection limit.

*1 : Detection limit 0.4 Bq/liter

*2 : Detection limit 0.1 Bq/liter

*3 : Sampled after the commencement of discharge at 2PM

*4 : Sampling suspended due to bad weather condition

* : 4 locations in the vicinity of the discharge outlet : Conduct daily during the discharge period and for one week following the completion of discharge

Conduct once a week outside the discharge period, excluding one week following the completion of discharge

Other 6 locations : Conduct twice a week during the discharge period and for one week following the completion of discharge

Conduct once a month outside the discharge period, excluding one week following the completion of discharge

(Reference) Sea area monitoring history (22/25)

(Unit: Bq/liter)

	Sampling location	Frequency	April, 2024							May, 2024				
			25	26	27	28	29	29 Normal *1	30	1	2	3	4	5
In the vicinity of the discharge outlet	T-1	Twice a week*	<7.7	—	—	—	<6.1	0.62	—	—	<6.6	—	—	—
	T-2	Twice a week*	<7.8	—	—	—	<6.1	0.51	—	—	<6.6	—	—	—
	T-0-1	Once a day*	<7.3	<6.4	<9.4	<7.9	<6.9	being measured	<5.6	<9.0	<6.8	<8.1	<7.3	<7.6
	T-0-1A	Once a day*	<7.3	<6.5	<9.5	<7.8	<7.0	being measured	<5.6	<7.4	<6.8	29	<6.5	<7.7
	T-0-2	Once a day*	<7.3	<6.4	<9.4	<7.9	<6.9	<0.34	<5.6	<9.0	<6.8	<8.1	<6.4	<7.7
	T-0-3A	Twice a week*	<5.2	—	—	—	<6.3	<0.33	—	—	<5.8	—	—	—
	T-0-3	Twice a week*	<7.3	—	—	—	<6.9	<0.33	—	—	<6.7	—	—	—
	T-A1	Twice a week*	<7.7	—	—	—	<6.3	<0.36	—	—	<5.8	—	—	—
	T-A2	Once a day*	<5.2	<7.2	<6.3	<7.6	<6.3	<0.36	<5.6	<7.4	<5.8	<6.5	<6.4	<5.0
	T-A3	Twice a week*	<5.2	—	—	—	<6.4	<0.36	—	—	<5.8	—	—	—
Outside the vicinity of the discharge outlet	T-D5	Once a week	—	—	—	—	<6.4	being measured	—	—	—	—	—	—
	T-S3	Once a month	—	—	—	—	—	—	—	—	—	—	—	—
	T-S4	Once a month	—	—	—	—	—	—	—	—	—	—	—	—
	T-S8	Once a month	—	—	—	—	—	—	—	—	—	—	—	—

※ : A "less than" symbol (<) indicates that the analysis result was less than the detection limit.

*1 : Detection limit 0.4 Bq/liter

: Term of discharge of ALPS treated water (Management number: 24-1-5)

* : 4 locations in the vicinity of the discharge outlet : Conduct daily during the discharge period and for one week following the completion of discharge
 Conduct once a week outside the discharge period, excluding one week following the completion of discharge
 Other 6 locations : Conduct twice a week during the discharge period and for one week following the completion of discharge
 Conduct once a month outside the discharge period, excluding one week following the completion of discharge

(Reference) Sea area monitoring history (23/25)

(Unit: Bq/liter)

	Sampling location	Frequency	May, 2024											
			6	6 Normal *1	7 *2	8	8 Normal *3	9	10	11	12	13	14	14 Normal *3
In the vicinity of the discharge outlet	T-1	Twice a week*	<5.1	being measured	—	—	—	<9.3	—	—	—	<5.8	—	being measured
	T-2	Twice a week*	<5.1	being measured	—	—	—	<9.4	—	—	—	<5.8	—	being measured
	T-0-1	Once a day*	<5.8	being measured	<4.9	<6.2	—	<5.5	<7.9	<6.6	<7.5	—*4	<6.2	being measured
	T-0-1A	Once a day*	13	being measured	<7.6	<6.2	—	<5.5	<6.3	<5.5	<7.5	—*4	<7.7	being measured
	T-0-2	Once a day*	<5.9	being measured	<7.6	<6.2	—	<5.5	<7.9	<6.5	<7.5	—*4	<6.2	being measured
	T-0-3A	Twice a week*	<6.3	being measured	—	—	—	<5.3	—	—	—	—*4	<7.1	being measured
	T-0-3	Twice a week*	<5.8	being measured	—	—	—	<5.4	—	—	—	—*4	<6.2	being measured
	T-A1	Twice a week*	<6.2	being measured	—	—	—	<5.3	—	—	—	—*4	<6.4	being measured
	T-A2	Once a day*	<6.2	being measured	<7.6	<7.8	—	<5.3	<6.2	<5.5	<9.2	—*4	<7.7	being measured
	T-A3	Twice a week*	<6.3	being measured	—	—	—	<5.2	—	—	—	—*4	<7.7	being measured
Outside the vicinity of the discharge outlet	T-D5	Once a week	<5.1	being measured	—	—	—	—	—	—	—	—*4	<6.4	being measured
	T-S3	Once a month	—	—	—	<7.7	being measured	—	—	—	—	—	—	—
	T-S4	Once a month	—	—	—	<7.6	being measured	—	—	—	—	—	—	—
	T-S8	Once a month	—	—	—	—	—	—	—	—	—	—	—	—

※ : A “less than” symbol (<) indicates that the analysis result was less than the detection limit.

*1 : Detection limit 0.4 Bq/liter

*2 : Sampled before 8AM, prior to the completion of the discharge

*3 : Detection limit 0.1 Bq/liter

*4 : Sampling suspended due to bad weather condition

* : 4 locations in the vicinity of the discharge outlet : Conduct daily during the discharge period and for one week following the completion of discharge
 Conduct once a week outside the discharge period, excluding one week following the completion of discharge

Other 6 locations : Conduct twice a week during the discharge period and for one week following the completion of discharge
 Conduct once a month outside the discharge period, excluding one week following the completion of discharge

(Reference) Sea area monitoring history (24/25)

(Unit: Bq/liter)

	Sampling location	Frequency	May, 2024											
			17 *1	17 Normal *1,2	18	19	20	20 Normal *2	21	22	22 Normal *3	23	24	25
In the vicinity of the discharge outlet	T-1	Twice a week*	<5.7	being measured	—	—	<7.2	being measured	—	—	—	<7.3	—	—
	T-2	Twice a week*	<5.8	being measured	—	—	<7.3	being measured	—	—	—	<7.3	—	—
	T-0-1	Once a day*	<8.9	being measured	<7.9	<7.0	<6.5	being measured	<7.3	<6.5	—	<5.6	<6.4	<6.0
	T-0-1A	Once a day*	<8.8	being measured	<7.9	<6.9	<6.5	being measured	<6.9	<6.4	—	<5.5	<6.2	<6.9
	T-0-2	Once a day*	<8.9	being measured	<7.9	<7.0	<6.5	being measured	<7.0	7.7	—	<5.5	<6.1	<6.9
	T-0-3A	Twice a week*	<6.3	being measured	—	—	<6.9	being measured	—	—	—	<6.1	—	—
	T-0-3	Twice a week*	<8.9	being measured	—	—	<6.5	being measured	—	—	—	<5.6	—	—
	T-A1	Twice a week*	<6.2	being measured	—	—	<6.9	being measured	—	—	—	<6.1	—	—
	T-A2	Once a day*	<6.3	being measured	<7.9	<6.7	<6.8	being measured	<6.9	<6.4	—	<6.0	<6.2	<6.9
	T-A3	Twice a week*	<6.2	being measured	—	—	<6.9	being measured	—	—	—	<6.2	—	—
Outside the vicinity of the discharge outlet	T-D5	Once a week	—	—	—	—	<7.2	being measured	—	—	—	—	—	—
	T-S3	Once a month	—	—	—	—	—	—	—	<5.5	being measured	—	—	—
	T-S4	Once a month	—	—	—	—	—	—	—	<5.5	being measured	—	—	—
	T-S8	Once a month	—	—	—	—	—	—	—	<5.5	being measured	—	—	—

※ : A “less than” symbol (<) indicates that the analysis result was less than the detection limit.

*1 : Sampled after the commencement of discharge at 1PM

*2 : Detection limit 0.4 Bq/liter

*3 : Detection limit 0.1 Bq/liter

: Term of discharge of ALPS treated water (Management number: 24-2-6)

* : 4 locations in the vicinity of the discharge outlet : Conduct daily during the discharge period and for one week following the completion of discharge
 Conduct once a week outside the discharge period, excluding one week following the completion of discharge
 Other 6 locations : Conduct twice a week during the discharge period and for one week following the completion of discharge
 Conduct once a month outside the discharge period, excluding one week following the completion of discharge

(Reference) Sea area monitoring history (25/25)

(Unit: Bq/liter)

	Sampling location	Frequency	May, 2024
			26
In the vicinity of the discharge outlet	T-1	Twice a week*	—
	T-2	Twice a week*	—
	T-0-1	Once a day*	<7.4
	T-0-1A	Once a day*	<7.4
	T-0-2	Once a day*	<7.4
	T-0-3A	Twice a week*	—
	T-0-3	Twice a week*	—
	T-A1	Twice a week*	—
	T-A2	Once a day*	<8.3
	T-A3	Twice a week*	—
Outside the vicinity of the discharge outlet	T-D5	Once a week	—
	T-S3	Once a month	—
	T-S4	Once a month	—
	T-S8	Once a month	—

※ : A “less than” symbol (<) indicates that the analysis result was less than the detection limit.

: Term of discharge of ALPS treated water (Management number: 24-2-6)

* : 4 locations in the vicinity of the discharge outlet : Conduct daily during the discharge period and for one week following the completion of discharge
 Conduct once a week outside the discharge period, excluding one week following the completion of discharge
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