ALPS Treated Water Discharge Status Update

February 26, 2026

TEPCO

Tokyo Electric Power Company Holdings, Inc.

Report contents

1. Monitoring history regarding discharge

2. Status of facility inspections

3. Status of the dismantling of the J8 area tanks

4. Transfer of ALPS treated water in preparation for the future discharges

5. Plan of the discharge of ALPS treated water

   (Management number* : 25-7-18)

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

* 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, “25-7-18” indicates that the data is for the seventh discharge of 2025, which is the eighteenth discharge to date.

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1-1. Sea area monitoring history

TEPCO

○ 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) are all below indices (discharge suspension level and investigation level).

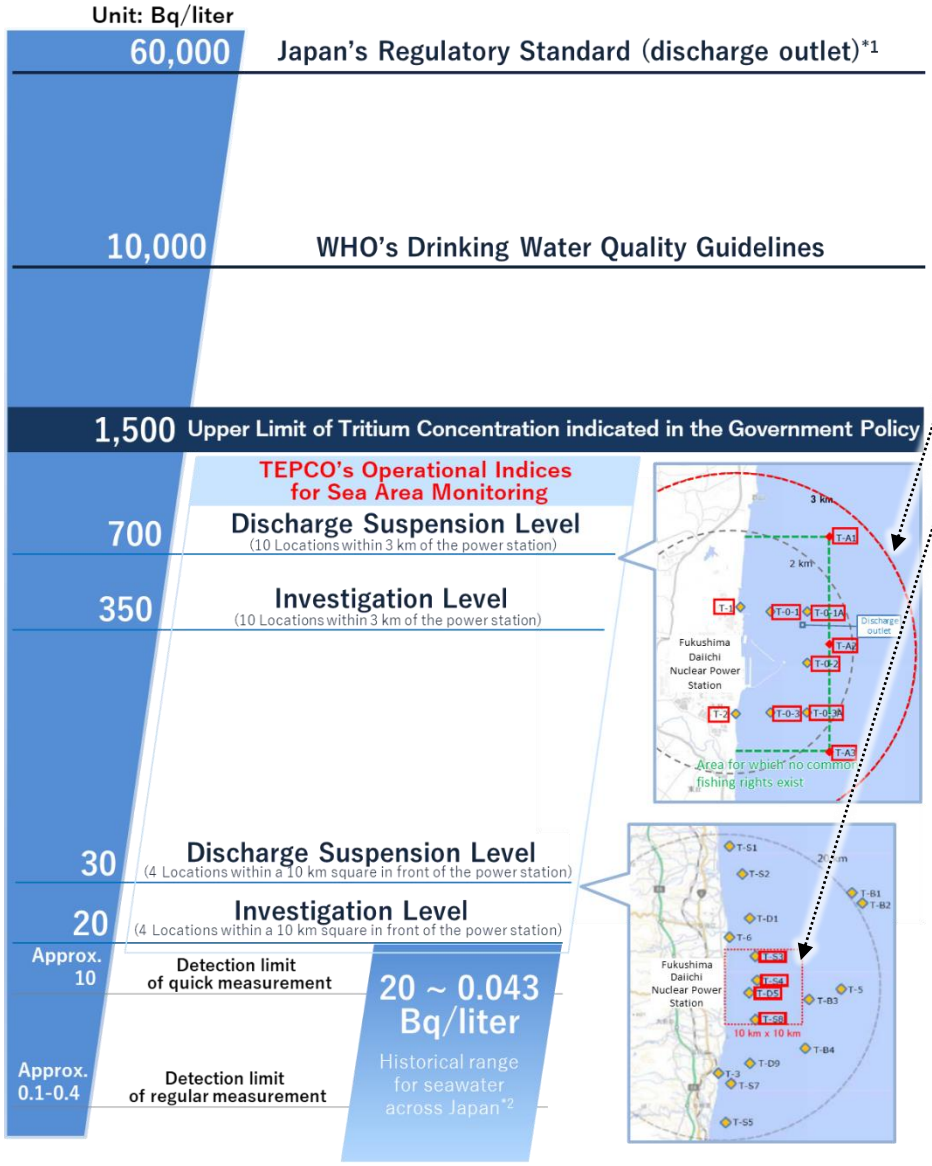
(Unit: Bq/L)

	Sampling location*3	Frequency	January	February 2026				
			27	2	5	9	16	23
In the vicinity of the discharge outlet	T-1	Twice a week*1	-	<6.1	-	-	-	-
	T-2	Twice a week*1	-	<6.1	-	-	-	-
	T-0-1	Once a day*2	-	<7.9	-	<6.1	<7.0	<5.7
	T-0-1A	Once a day*2	-	<7.8	-	<6.1	<7.0	<5.8
	T-0-2	Once a day*2	-	<7.8	-	<6.2	<7.0	<5.8
	T-0-3A	Twice a week*1	-	<6.5	-	-	-	-
	T-0-3	Twice a week*1	-	<7.8	-	-	-	-
	T-A1	Twice a week*1	-	<6.5	-	-	-	-
	T-A2	Once a day*2	-	<6.4	-	<7.3	<6.9	<5.2
	T-A3	Twice a week*1	-	<6.4	-	-	-	-
Outside the vicinity of the discharge outlet	T-D5	Once a week	<6.2	<6.1	-	<7.3	<6.8	<5.2
	T-S3	Once a month	-	-	<7.0	-	-	-
	T-S4	Once a month	-	-	<7.1	-	-	-
	T-S8	Once a month	-	-	-	<7.3	-	-

※: A "less than" symbol (<) indicates that the analysis result was less than the detection limit indicates that the detected value : Term of discharge of ALPS treated water

*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 the one week following the completion of discharge
*2: Conduct once a day during the discharge period and for one week following the completion of discharge. Conduct once a week outside the discharge period, excluding the one week following the completion of discharge
*3: For sampling locations, refer to "[Reference] Measurement monitoring plan"

[Supplement] Comparison of tritium concentration in seawater



*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)

- We have set a discharge suspension level and an investigation level as TEPCO's operational indices.

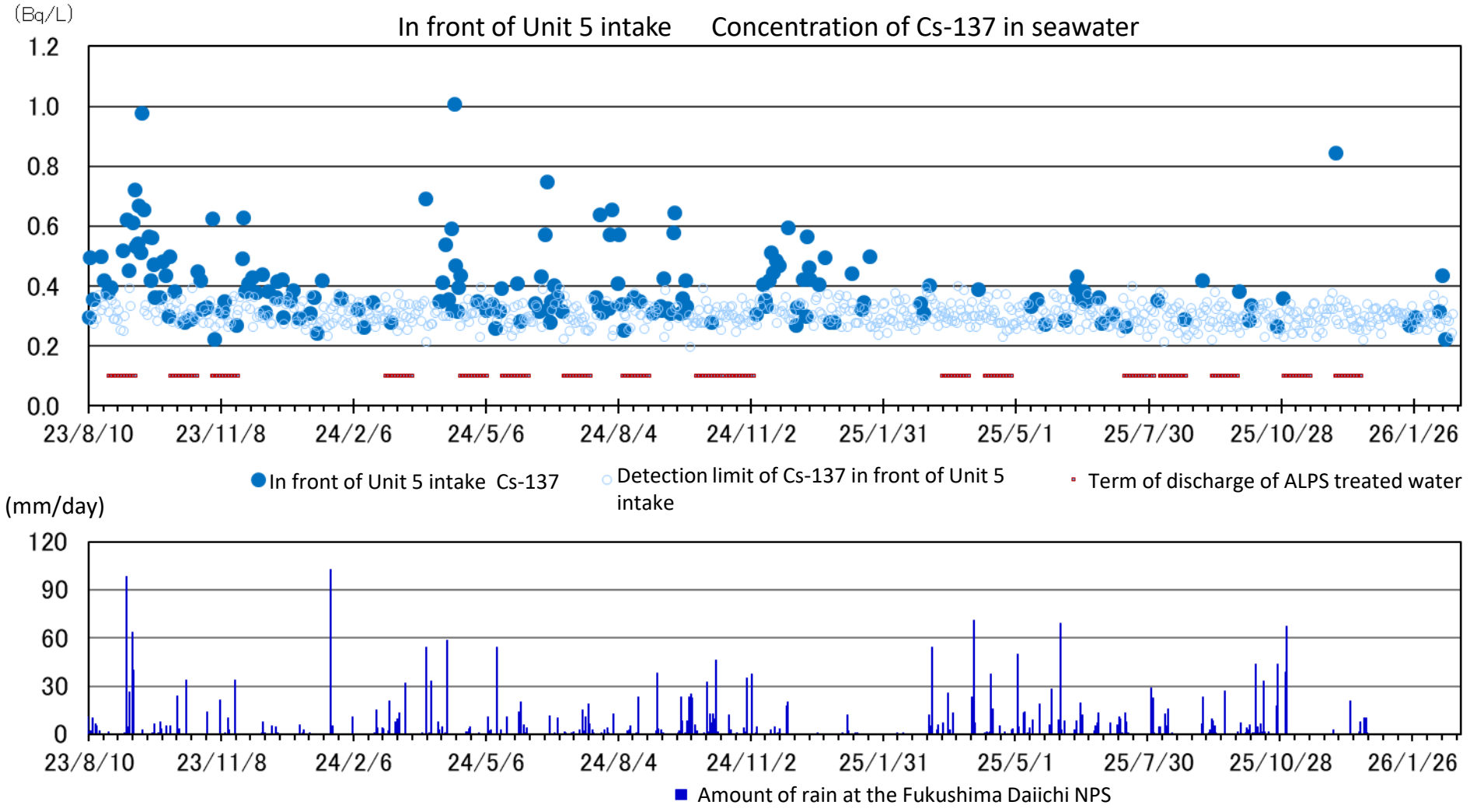
	Discharge suspension level	Investigation level
Within 3km of the power station	700 Bq/L	350 Bq/L
Within a 10km square in front of the power station	30 Bq/L	20 Bq/L

If the discharge suspension level is exceeded, the sea discharge will be immediately suspended.
If the investigation level is exceeded, facilities/operation status will be inspected and the frequency of monitoring will be increased as necessary.

- Even if the tritium concentration exceeds indices (Discharge suspension level and Investigation level), the levels are well below the Japan's regulatory standard of 60,000 Bq/L and the WHO's drinking water quality guidelines of 10,000 Bq/L, and we assess that the surrounding sea areas are still safe.
- It is expected that the concentration of tritium in seawater will be affected depending on the concentration of tritium in the treated water to be released in the future, and higher values than before will be detected. Even in such cases, it is evaluated that the concentration will remain below the investigation level and other indices.

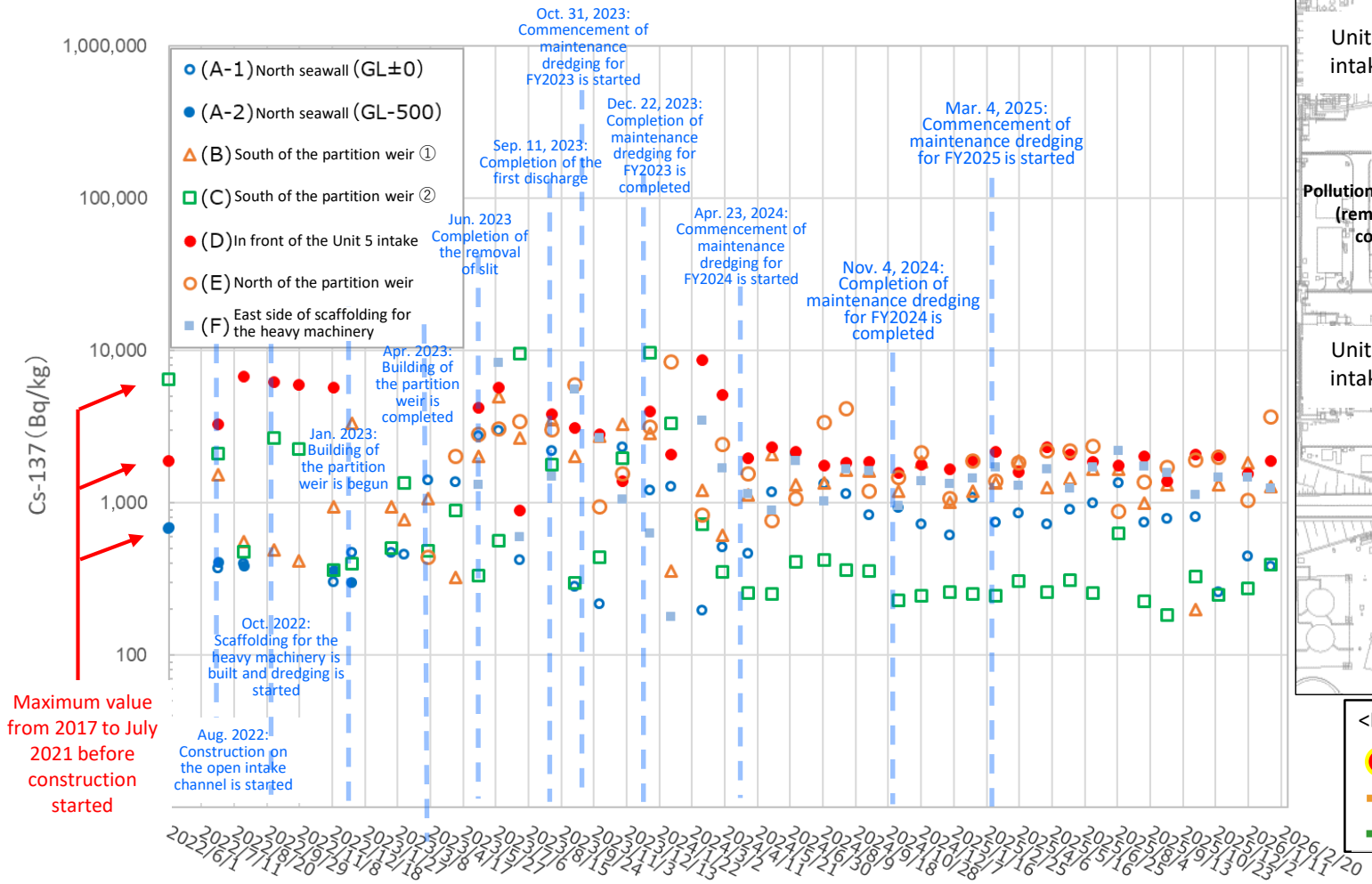
1-2. Unit 5 intake channel monitoring

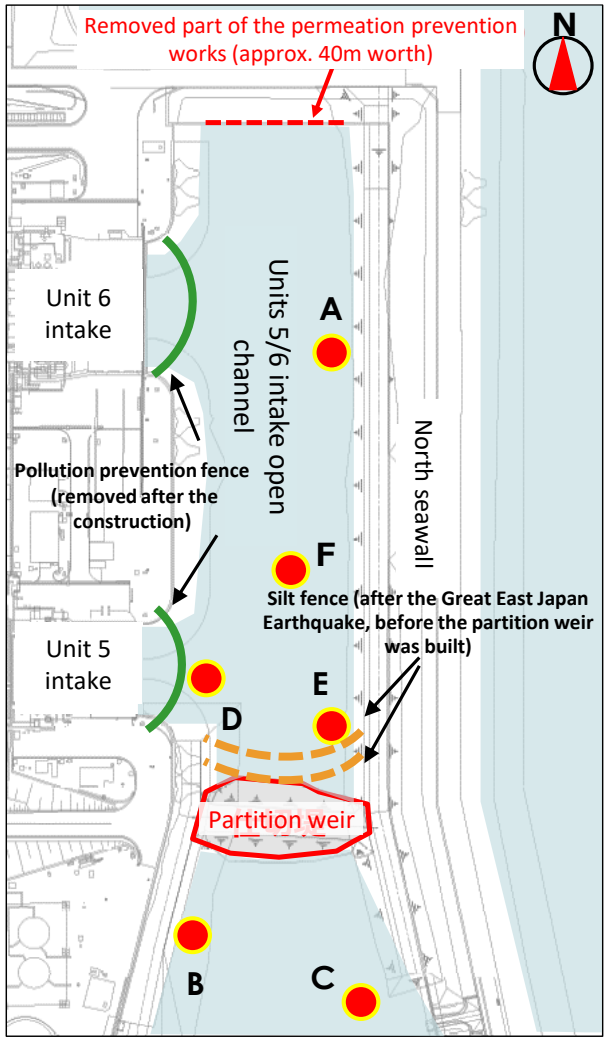
- Sea water monitoring results at near the intake for seawater to be used for dilution during the discharge of ALPS treated water have confirmed that values are similar to those outside of the term of the discharge.



1-3. Monitoring results for seabed soil inside the Unit 5/6 intake open channel (1)

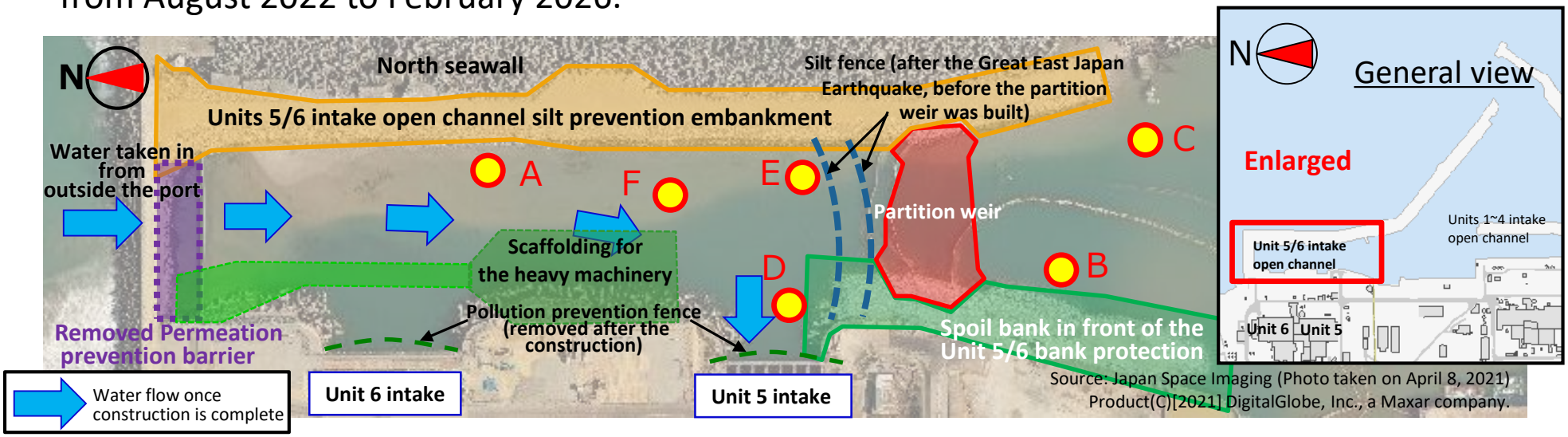
- Monitoring results for seabed soil in front of Unit 5 intake did not show significant fluctuations from the beginning of construction at the intake open channel until December 2022. While they showed higher readings after January 2023, we have confirmed that these readings decreased after the completion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





1-3. Monitoring results for seabed soil inside the Unit 5/6 intake open channel (2)

- The following shows monitoring results for seabed soil inside the unit 5/6 intake open channel from August 2022 to February 2026.



Sampling points		Before construction 2017 to July 2021	FY2022 Aug. ~ Mar.	2023 Apr. ~ Mar.	2024 Apr. ~ Mar.	2025 Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.
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	31.5～39.8	32.0～69.5	34.4～64.5	45.0	51.3	47.3	46.7	92.3	42.5	60.1	62.6	29.7	36.0	38.3
	Cs-137	163.6～678.6	303.2～468.1	216.7～2975.0	461.7～2107.0	850.5	727.6	902.6	999.4	1,352.0	747.7	790.3	812.9	258.1	444.9	384.3
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	32.5～38.3	※Only sampled from the surface (GL±0m) since sand was removed during dredging												
	Cs-137	310.0～689.8	299.1～404.0													
B South side of the partition weir (① (South side of the silt fence))	Cs-134	723.0	34.5～65.6	48.8～97.1	35.1～64.5	55.0	35.7	40.0	50.1	55.7	37.1	58.7	84.1	39.5	74.1	56.5
	Cs-137	6,475.0	412.8～3,331.0	323.8～4943.0	613.8～1889.0	1,889.0	1,251.0	1,447.0	1,654.0	1,669.0	987.7	1,306.0	200.1	1,314.0	1,830.0	1,272.0
C South side of the partition weir (② (South side of the silt fence))	Cs-134	183.0	30.9～68.7	37.1～234.8	26.5～48.6	36.7	33.7	50.7	35.4	38.1	31.0	29.7	30.1	28.5	25.1	47.5
	Cs-137	1,893.0	360.8～2,671.0	295.9～9519.0	227.4～419.6	306.9	257.5	311.6	255.8	633.3	224.9	182.1	329.7	248.6	273.6	390.1
D Unit 5 intake	Cs-134	—	101.6～3,546.0	50.2～690.7	35.9～114.8	44.4	47.1	53.1	80.5	40.6	59.2	52.8	58.8	47.3	37.6	70.0
	Cs-137	—	3,301.0～144,000.0	951.7～26400.0	1563.0～2306.0	1,587.0	2,306.0	2,064.0	1,852.0	1,757.0	2,014.0	1,380.0	2,078.0	2,041.0	1,555.0	1,894.0
E North side of the partition weir	Cs-134	—		35.6～147.0	30.0～59.7	44.4	47.4	82.8	38.9	47.3	42.7	36.0	45.0	44.0	52.3	37.9
	Cs-137	—		437.1～5795.0	746.6～4154.0	1,834.0	2,202.0	2,196.0	2,344.0	882.6	1,377.0	1,718.0	1,915.0	1,976.0	1,042.0	3,652.0
F East side of scaffolding for the heavy machinery	Cs-134	—		40.2～166.1	34.1～87.1	50.0	56.4	40.7	39.6	63.8	37.5	69.2	51.4	43.6	34.1	47.6
	Cs-137	—		592.4～8303.0	891.0～1884.0	1,295.0	1,664.0	1,235.0	1,715.0	2,187.0	1,729.0	1,579.0	1,122.0	1,474.0	1,476.0	1,235.0

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

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2-1. FY2025 Facility inspection overview

TEPCO

- As in FY2024, the inspections listed below will be implemented in FY2025 as well.

Facility	Primary inspection details	Inspection status
Measurement/ confirmation facilities	**Measurement/confirmation tank group C: Full internal inspections**	**Under inspection (Scheduled to be completed around May 2026.)**
	Circulation pumps: Disassembly inspection	Completed (no abnormalities (reported on November 27, 2025))
	Agitators: Insulation resistance measurements	**Completed (no abnormalities※)**
	Miscellaneous: Strainer cleaning, etc.	**Completed (no abnormalities※)**
Transfer facilities	**ALPS treated water transfer pumps: Lubrication oil for bearings replacement**	**Completed (no abnormalities)**
	Emergency isolation valve-1: Disassembly inspection	**Completed (no abnormalities (reported on the following pages))**
	Emergency isolation valve-2: External inspection	**Completed (no abnormalities)**
	Miscellaneous: Strainer cleaning, etc.	**Completed (no abnormalities※)**
Dilution facilities	**Seawater transfer pump system A: Disassembly inspection※**	Completed (no abnormalities (reported on December 25, 2025))
	Seawater transfer pump system B: Gland packing replacement	**Completed (no abnormalities)**
	Seawater transfer pump system C: Gland packing replacement	**Completed (no abnormalities)**
	Sea water transfer pipes/seawater pipe header: Internal inspection	Completed (no abnormalities (reported on January 29, 2026))
	Discharge vertical shaft (upper-stream storage): Internal inspection	**Completed (no abnormalities (reported on the following pages))**
Discharge facilities	**Discharge vertical shaft (down-stream storage), discharge tunnel: Internal inspection**	**Completed (no abnormalities (reported on the following pages))**
Seawater intake facilities	**Partitioning weirs: External inspection**	Completed (no abnormalities (reported on January 29, 2026))
	Intake channel system A: Cleaning, Internal inspection, repair※	**Completed (no abnormalities)**

※ The facilities related to measurement/confirmation tank group C are scheduled to be completed around May 2026.

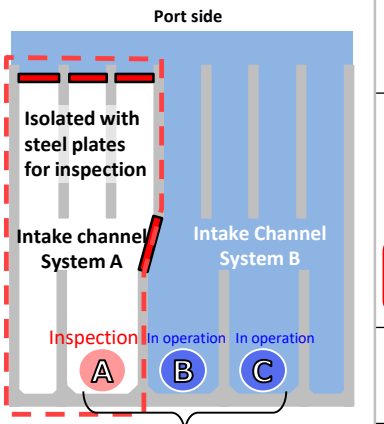
[Supplement] General inspection schedule

- The general inspection schedule (as of February 2026) for FY2025 is as follows:

Dotted lines indicate that changes may be made in accordance with work progress

	FY2025					
	October	November	December	January	February	March
Discharge schedule	▽10/30～11/17 25-5-16		▽12/4～12/22 25-6-17		▽Now	25-7-18
Measurement/ confirmation facilities	Circulation pump; Full internal inspections of tank group C (From November 2025 to around May 2026); Agitators, strainer and other equipment (Conducted between August 2025 and May 2026 during the periods when each tank group is shut down)					
Transfer facilities	ALPS treated water transfer pump; Emergency isolation valve-1; Emergency isolation valve-2; Strainer and other equipment; Inspections of facilities in the vicinity of tank group C are expected to be completed around May 2026 in conjunction with tank inspection.					
Dilution facilities	Seawater transfer pump system A※1; Seawater transfer pump systems B and C; Seawater transfer pipes and seawater pipe header; Discharge vertical shaft (upper-stream storage); Discharge (Management number: 25-6-17) will be conducted during inspection of seawater transfer pump system A					
Discharge facilities	Discharge vertical shaft (down-stream storage) and discharge tunnel					
Intake facilities	Intake channel system A※1; Discharge (Management number: 25-6-17) will be conducted during inspection of intake channel system A					

Diagram of water channel configuration



※1 Operation of intake channel system B will be possible when system A is being inspected because the "System A: seawater transfer pump system A" and "System B: seawater transfer pump systems B and C" areas will be isolated.

2-2. Emergency isolation valve-1 inspection status

- A disassembly inspection of emergency isolation valve-1 Systems A and B was implemented and no abnormalities such as corrosion were found. Pictures of the disassembly inspection are shown below.

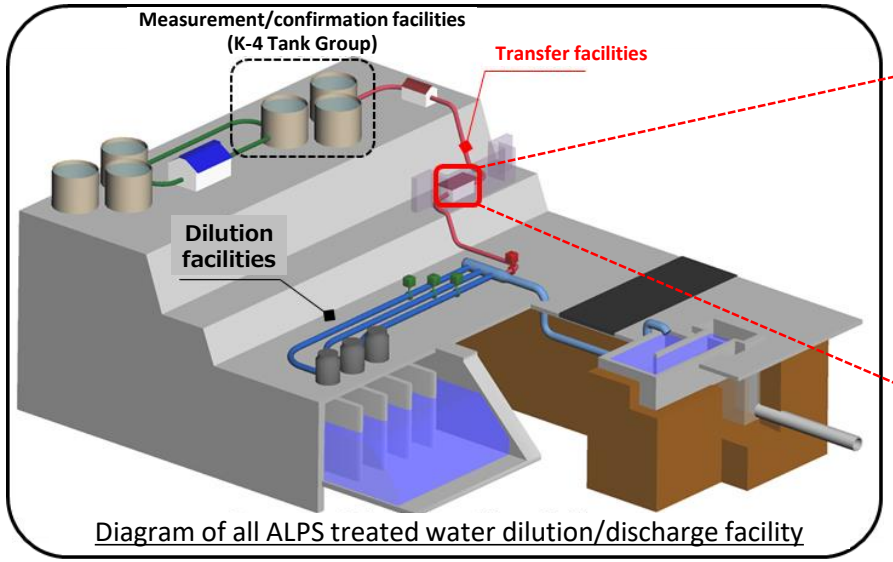
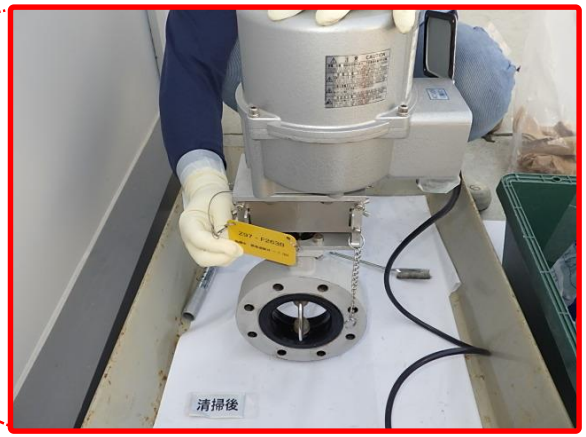


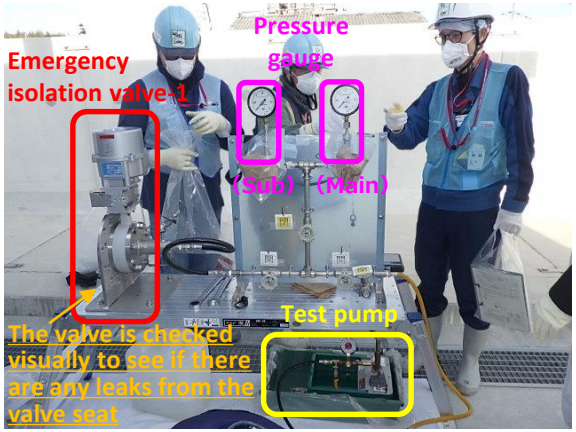
Diagram of all ALPS treated water dilution/discharge facility



Emergency isolation valve-1 System A (after cleaning)

Prior to cleaning

During cleaning



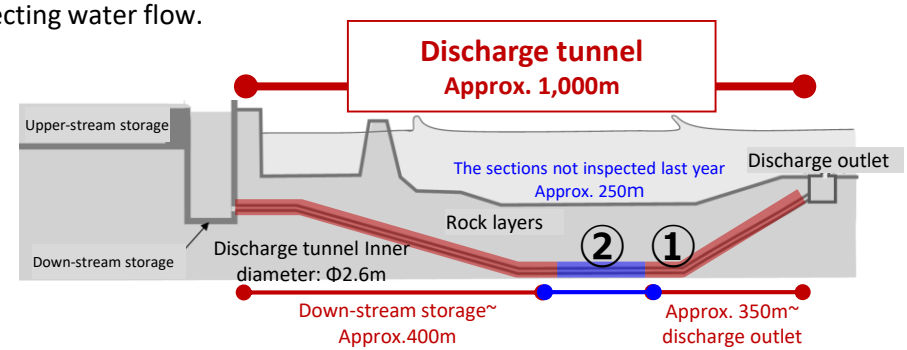
Valve seat leak tests※

※ With the valve completely closed test pressure was maintained at 1.1MPa (product pressure rating) for more than one minute to see if there were any leaks from the valve seat

2-3. Discharge tunnel inspection results

■ **An inspection of the inside of the discharge tunnel was conducted and it was confirmed that there were no abnormalities.**

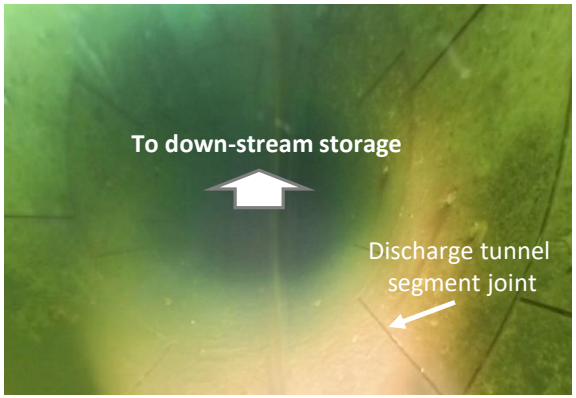
➢ A submersible ROV was used to inspect the entire inside of the discharged tunnel (approx. 1,000m), and it was confirmed that the concrete is intact and that sediment and marine organisms' adhesion is minimal and is not affecting water flow.



① Discharge tunnel conditions

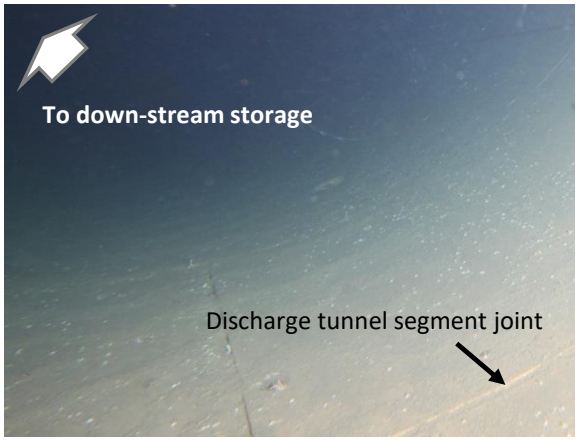
(Around 350m from the discharge outlet)

FY2025 (this fiscal year)



■ **No large changes were seen compared to last year**
- **Sediment is only a few centimeters thick**
- **Minimum marine organisms' adhesion**

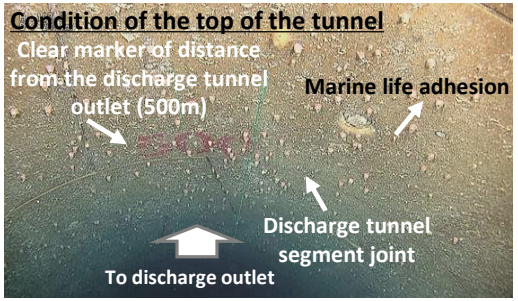
FY2024 (last fiscal year)

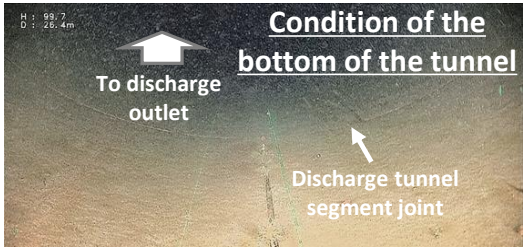


② Discharge tunnel conditions (sections not inspected last fiscal year※)

(Approx. 500m from down-stream storage)

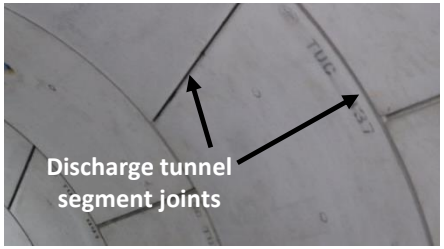
※ The submersible ROV was gradually moved through the entire length of the tunnel while carefully adjusting propulsion and control thereby allowing the entire tunnel to be inspected this fiscal year as planned





■ **As with other sections no abnormalities were found**
- **Sediment is only a few centimeters thick**
- **Minimum marine organisms' adhesion**

[Reference] Prior to filling the discharge tunnel with water



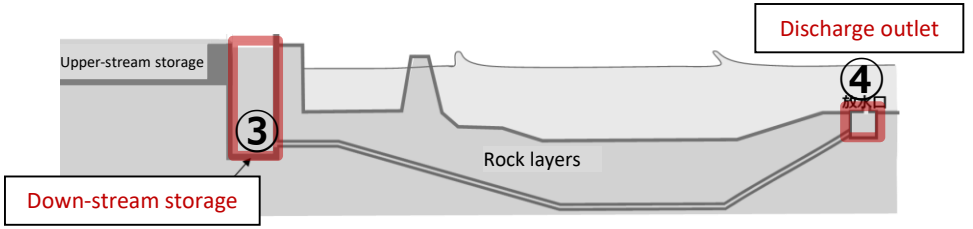
[Reference] Submersible ROV

(Hard wired, dimensions: 0.9m×1.3m, weight: Approx. 100Kg)

2-4. Discharge vertical shaft (down-stream storage) and discharge outlet inspection results

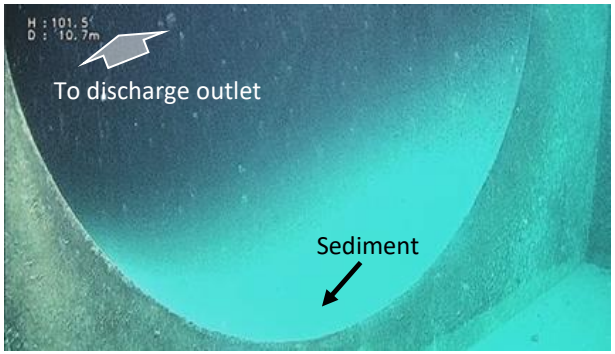
■ **An inspection of the inside of the down-stream storage and discharge outlet was conducted and it was confirmed that there were no abnormalities.**

➢ A submersible ROV and divers were used to check conditions inside the down-stream storage and the discharge outlet, and we confirmed that the concrete is intact and that sediment and marine organism adhesion is minimal and is not affecting water flow.



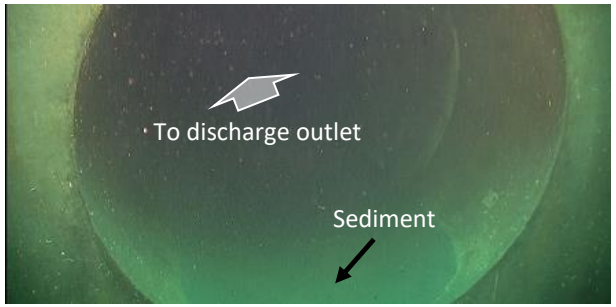
③ Discharge vertical shaft (down-stream storage) conditions
(Discharge tunnel inlet)

FY2025 (this fiscal year)



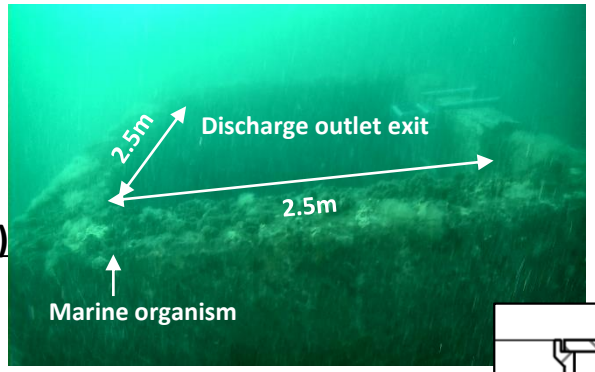
■ **No large changes were seen compared to last year**
- **Sediment is only a few centimeters thick at the bottom**

FY2024 (last fiscal year)



④ Discharge outlet conditions
(Discharge outlet exit)

FY2025 (this fiscal year)



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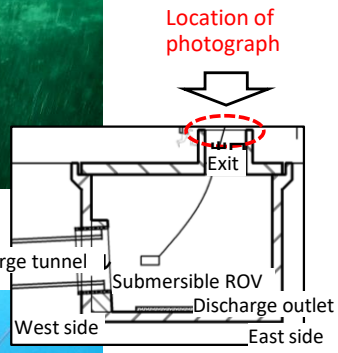
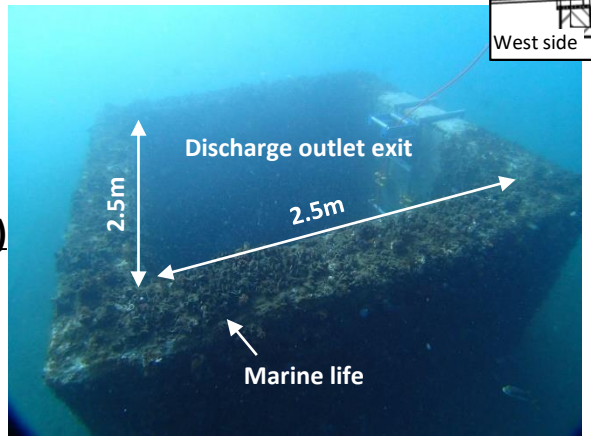


FY2024 (last fiscal year)



2-5. Discharge vertical shaft (down-stream storage) inspection results

■ **The sealant on the inside of the upper-stream storage was repaired and the tank filled with water to confirm water tightness※**

➢ Sealant blistering was repaired by cutting out the blister, draining it, drying it, and then reapplying sealant

※(Pressurized leak test based on the Inspection implementation procedure for specified nuclear facilities (pre-operational inspection) : Maintained for 24-hours-Less than 5mm)

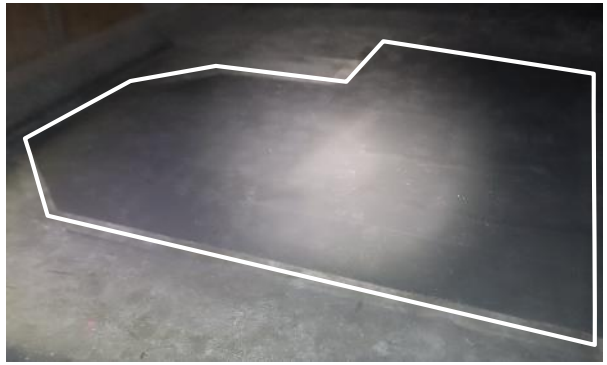
FY2025 (this fiscal year)

Prior to repairing blisters inside the water storage tank (at the bottom)

After drying the blisters inside the water storage tank (at the bottom)

FY2024 (last fiscal year)

After repairing blisters inside the water storage tank (at the bottom)



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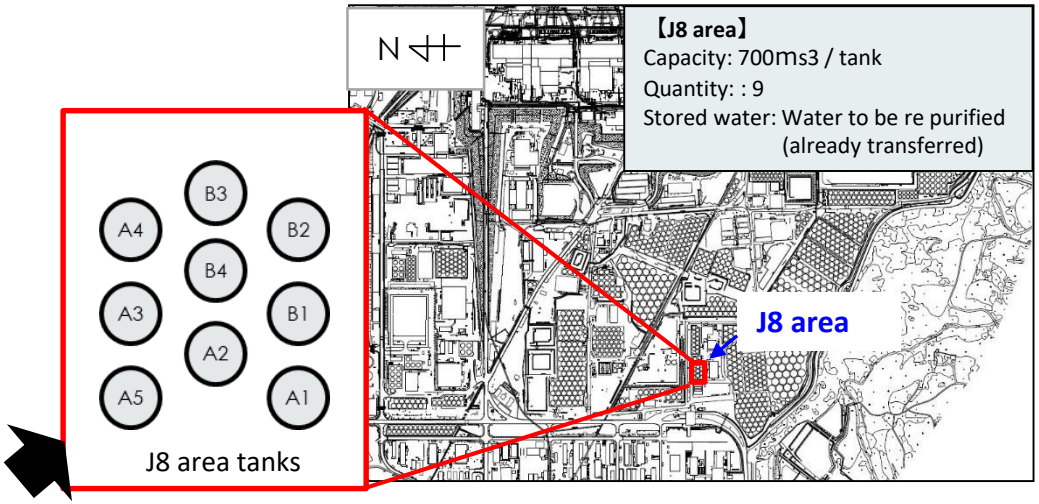
3. Dismantling of J8 area tanks

- On November 20, 2025, the J8 area tanks were taken out of service and dismantling began on January 20, 2026.
- Dismantling of the 1st tank was completed on February 17, 2026.

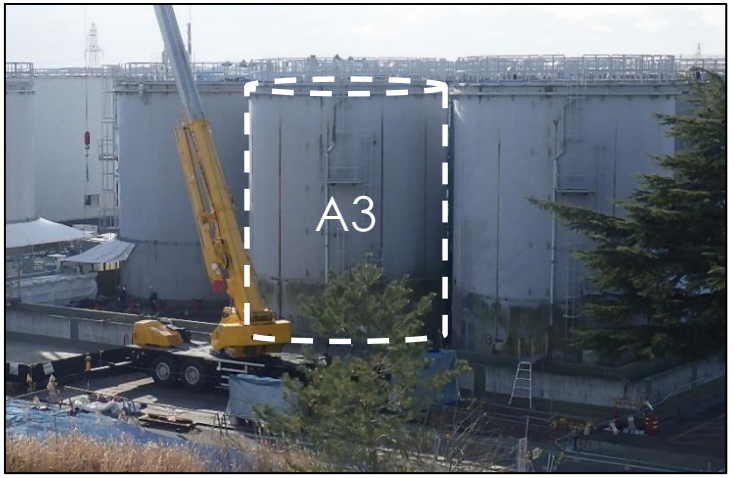


Direction of photograph

Tank number	Dismantling completed date	Tank number	Dismantling completed date
A4	2026/2/17	A2	–
A3	–	B2	–
A5	–	B1	–
B3	–	A1	–
B4	–		

＜Tank Dismantling Results＞

＜Photographed on January 15, 2026＞



＜Photographed on February 17, 2026＞

Report contents

1. Monitoring history regarding discharge

2. Status of facility inspections

3. Status of the dismantling of the J8 area tanks

4. Transfer of ALPS treated water in preparation for the future discharges

5. Plan of the discharge of ALPS treated water

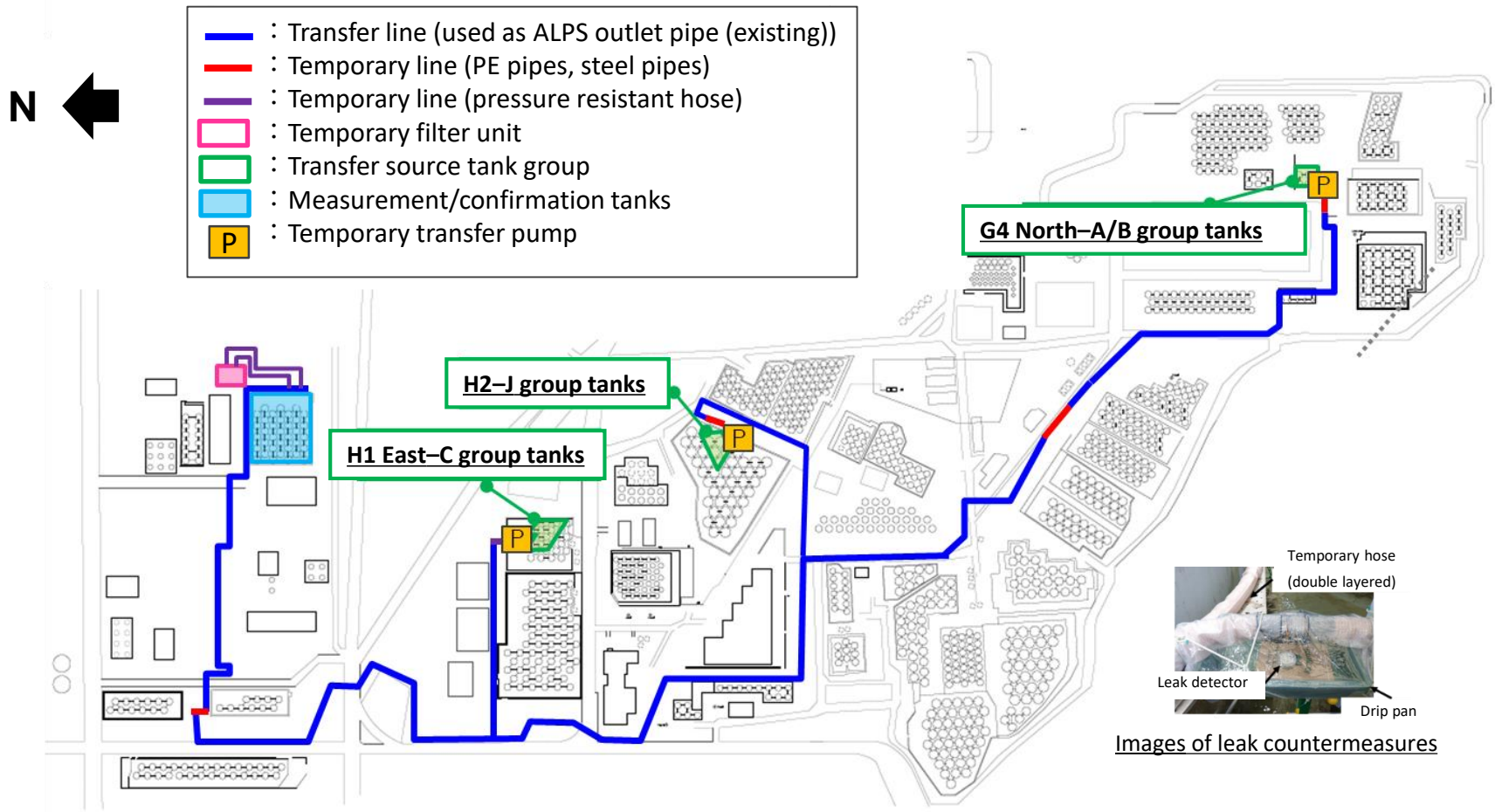
(Management number* : 25-7-18)

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

* 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, “25-7-18” indicates that the data is for the seventh discharge of 2025, which is the eighteenth discharge to date.

4. Transfer of ALPS treated water in preparation for the future discharges

- Transfer of ALPS treated water from G4 north area Group B and H2 area Group J to measurement/confirmation facility tank group B in preparation for the discharge of management number: 25-7-18 commenced on October 7, 2025 to November 7, 2025. Circulation/agitation of the tanks commenced on November 13, 2025 and samples were taken on November 20, 2025. Analysis was complete and discharge will be commenced as soon as preparations are ready.
- Transfer of ALPS treated water from H2 area Group J and H1 East area Group C to measurement/confirmation facility tank group A in preparation for the discharge of management number: 26-1-19 commenced on January 5, 2026 to February 3, 2026. Circulation/agitation of the tanks commenced on February 6, 2026 and samples were taken on February 13, 2026. The analysis is ongoing.



Images of leak countermeasures

Report contents

1. Monitoring history regarding discharge

2. Status of facility inspections

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4. Transfer of ALPS treated water in preparation for the future discharges

5. Plan of the discharge of ALPS treated water

(Management number* : 25-7-18)

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

* 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, “25-7-18” indicates that the data is for the seventh discharge of 2025, which is the eighteenth discharge to date.

5-1. Plan of the discharge of ALPS treated water (Management number : 25-7-18)

- In the seventh discharge of FY2025 (the eighteenth in total), discharge in two-stage will be implemented to confirm that the facility status remains unchanged from the initial phase of the discharge into the sea (the first through third discharges in FY2023).
- The overall performance of the ALPS treated water dilution/discharge facilities will be verified by integrating the components that constitutes the system and following the procedures as below.

First Stage・・・ General performance confirmation of components (no discharge into the sea)

① Upper-stream storage emptied
② ALPS treated water (measurement/confirmation tank) tritium concentration entered into system
③ One seawater transfer pump started up
④ ALPS treated water transfer pump started up after the seawater transfer pump reaches rated flow
⑤ ALPS treated water transfer flow automatically adjusted in accordance with tritium concentration so that the ALPS treated water diluted by seawater concentration is 700Bq/liter※
⑥ After rated flow has been reached, the ALPS treated water transfer pump and the seawater transfer pump will be shutdown
⑦ Operate the ALPS treated water dilution/discharge facility to verify that its performance had no problems.
The concentration of tritium in the water diluted by seawater in upper-stream storage shall also be measured to confirm that through calculated estimates and actual measurements that there had been no significant difference in the concentration of tritium and less than 700Bq/liter.

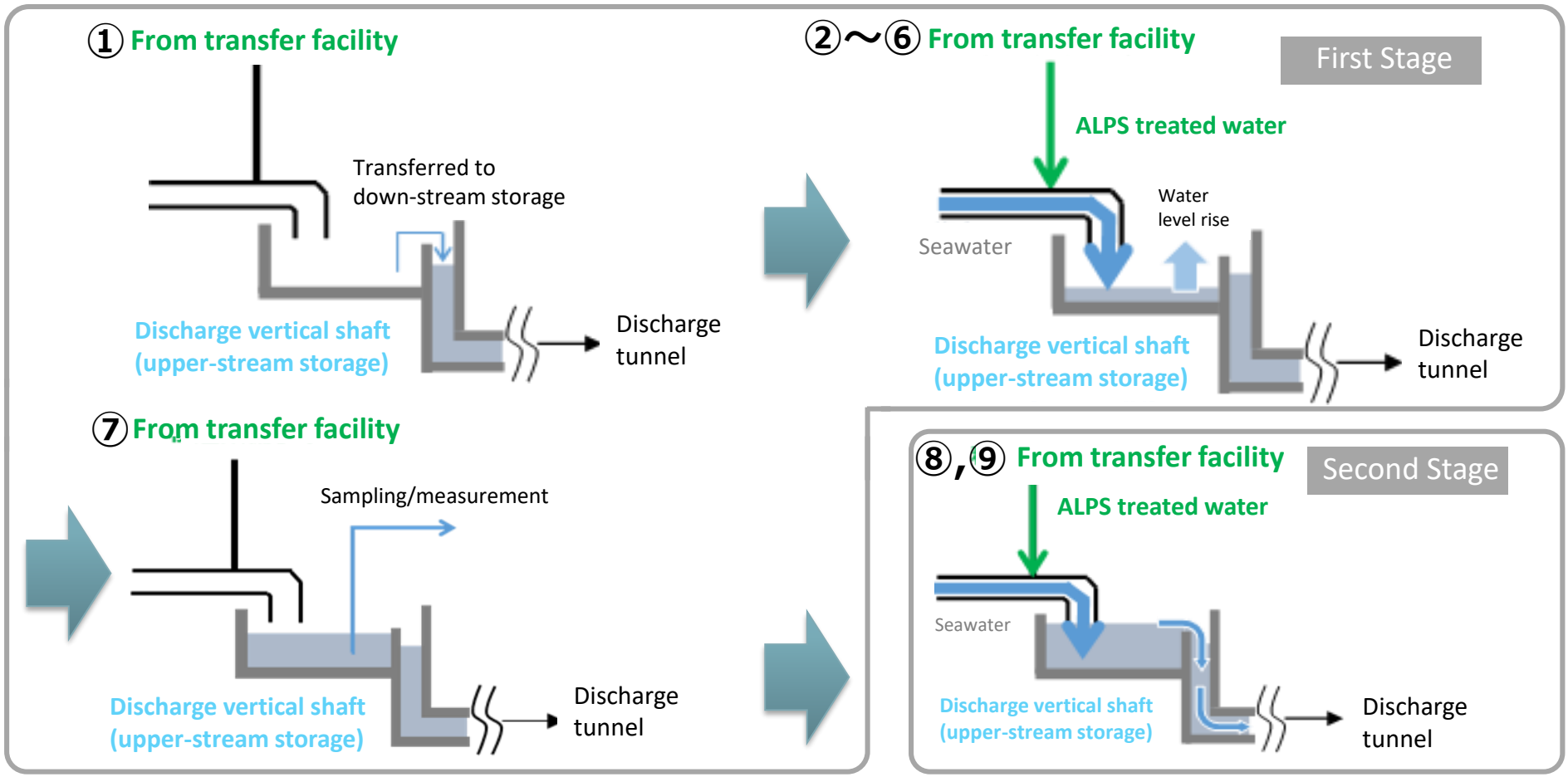
※Value determined so that the upper operational limit of 1,500Bq/liter is not exceeded in consideration of analysis uncertainty and instrument discrepancies

Second Stage・・・ Continuous discharge into the sea

⑧ Two seawater pumps started up in succession (commencement of discharge of diluted water from upper-stream storage)
⑨ After the two seawater pumps have reached rated flow the ALPS treated water transfer pump shall be started up (continuous discharge)

("the post-dilution tritium concentration" during continuous discharge shall be managed using calculated values and analysis values from water sampled daily from downstream of the seawater flow header)

5-2. Method of discharge in two stage



① The discharge vertical shift (upper-stream storage) emptied

② ～⑥ A small amount (approximately 1m³) of ALPS treated water will be diluted with seawater (approximately 1,200m³) and then held in the upper-stream storage).

⑦ Operate the ALPS treated water dilution/discharge facility to verify that its performance had no problems.
The concentration of tritium in the water diluted by seawater in upper-stream storage shall also be measured to confirm that through calculated estimates and actual measurements that there had been no significant difference in the concentration of tritium and less than 700Bq/liter. [Processes ① through ⑦ comprise the First Stage] .

⑧, ⑨ Then, TEPCO will move on to the Second Stage which will be continuous discharge into the sea.

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1. Monitoring history regarding discharge

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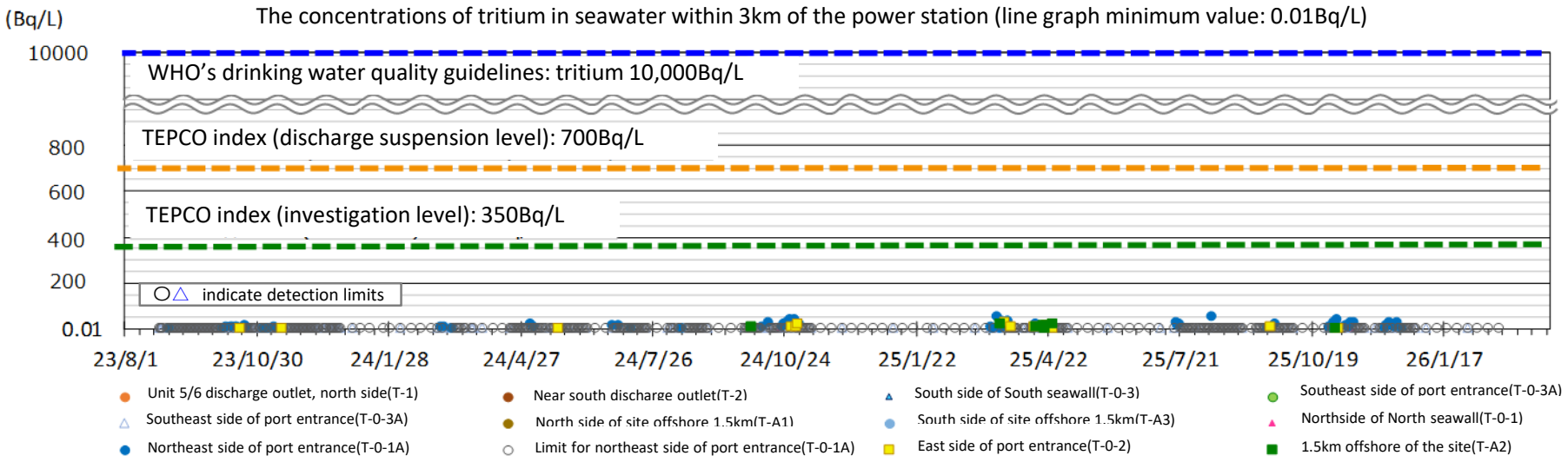
5. Plan of the discharge of ALPS treated water

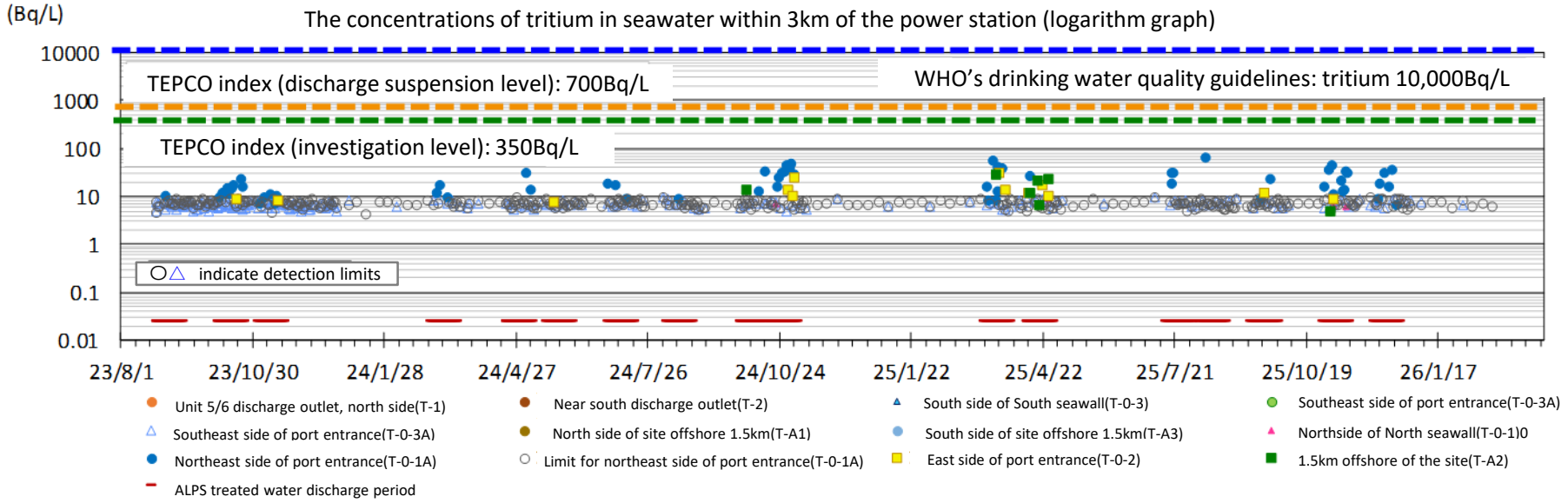
(Management number* : 25-7-18)

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

[Reference] Sea area monitoring results (1/2)　quick monitoring

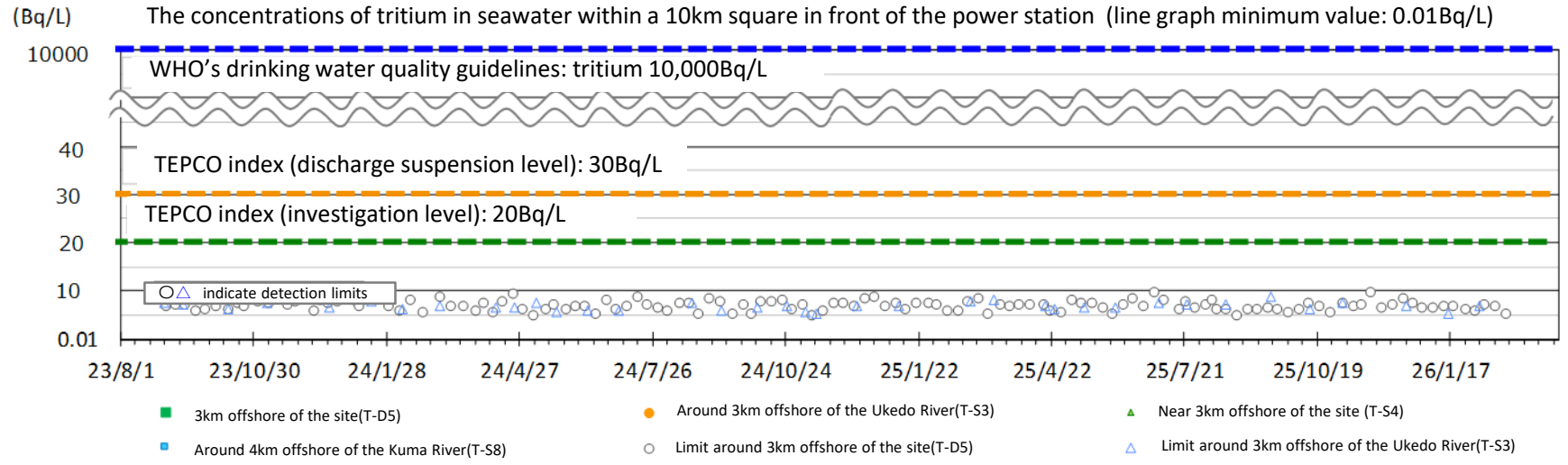
Within 3km of the power station

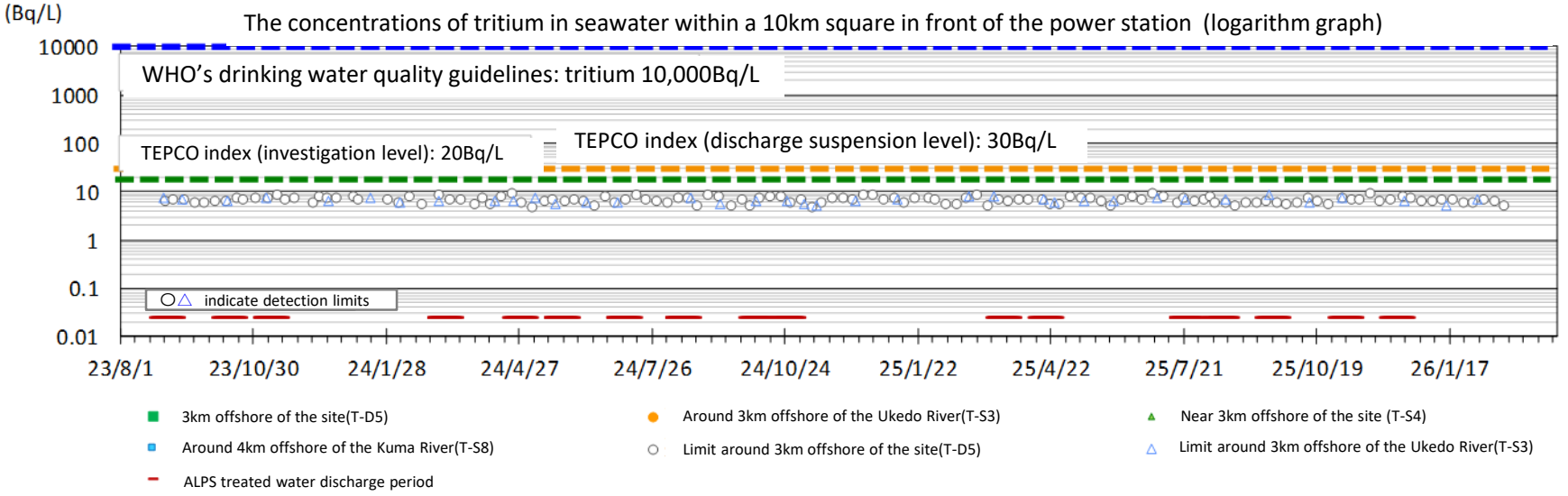




[Reference] Sea area monitoring results (2/2)　quick monitoring

Within a 10km square in front of the power station





[Reference] Sea area monitoring plan

for obtaining quick measurements of the concentration of tritium in seawater

○ We have engaged in monitoring to obtain quick measurements of the concentration of tritium in seawater with targeting the upper detection limit for 10Bq/liter, and index to determine discharge suspension (the discharge suspension level) was set.

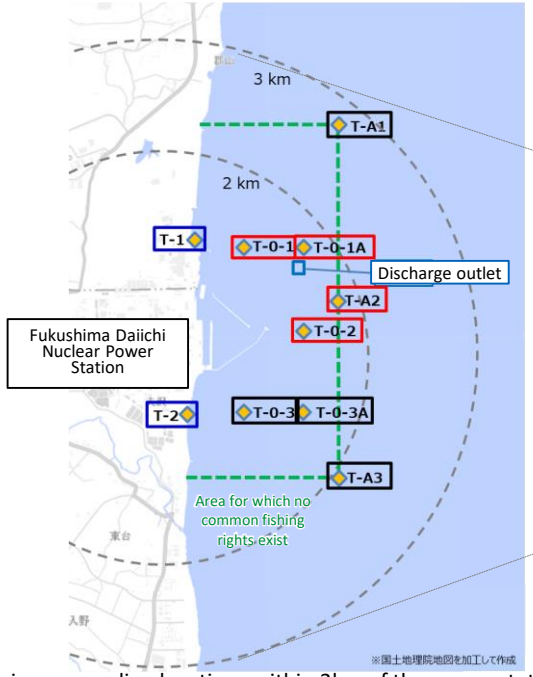


Figure 1: Specimen sampling locations within 3km of the power station (near the discharge outlet)

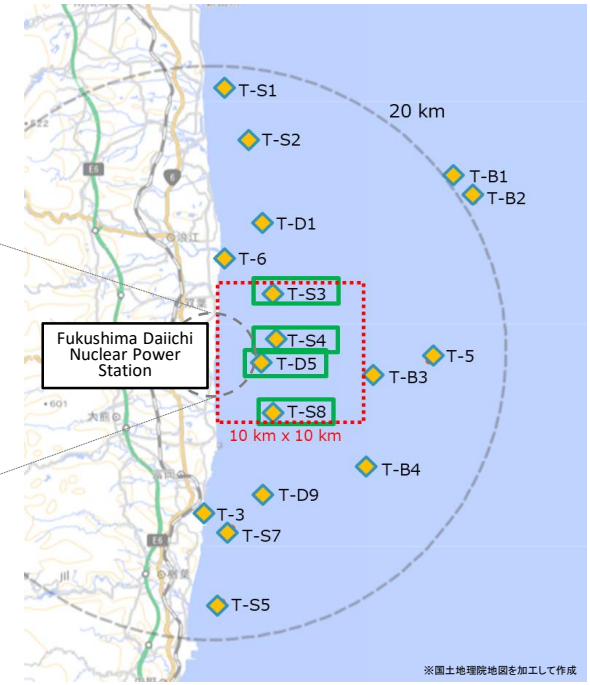


Figure 2: Specimen sampling locations within a 10km square in front of the power station

▭ ▭ ▭ : Monitoring points used to obtain quick results (10 locations)
Index (Discharge suspension level) 700Bq/L
Index (investigation level) 350Bq/L

▭ : Monitoring points used to obtain quick results (4 locations)
Index (Discharge suspension level) 30Bq/L
Index (investigation level) 20Bq/L

	【Fig.1】Within a 3km of the power station (near the discharge outlet)		【Fig. 2】Four locations within a 10km square in front of the power station ▭
	Four locations in the vicinity of the discharge outlet ▭	Other six locations ▭ ▭	
During the discharge period and for one week after the completion of discharge	Daily※1	Twice a week※2	T-D5: Once a week T-S3,T-S4,T-S8: Once a month
During the discharge suspension period (Excluding the week following the completion of discharge)	Once a week※2	Once a month※2	

※1 If bad weather during the discharge period prevents measurements for being taken for two consecutive days, on the following day (third day) if it is again expected that measurements cannot be taken, measured results will be quickly obtained from T-1 and T-2 ▭.

※2 We have engaged in monitoring daily since the commencement of discharge in August 2023, but the monitoring plan was changed on December 26, 2023 in light of actual measurements taken during discharge (Announced on December 25, 2023)