ALPS Treated Water Discharge Status Update

July 3, 2025

TEPCO

Tokyo Electric Power Company Holdings, Inc.

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1-1. Sea area monitoring history

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◯ 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).

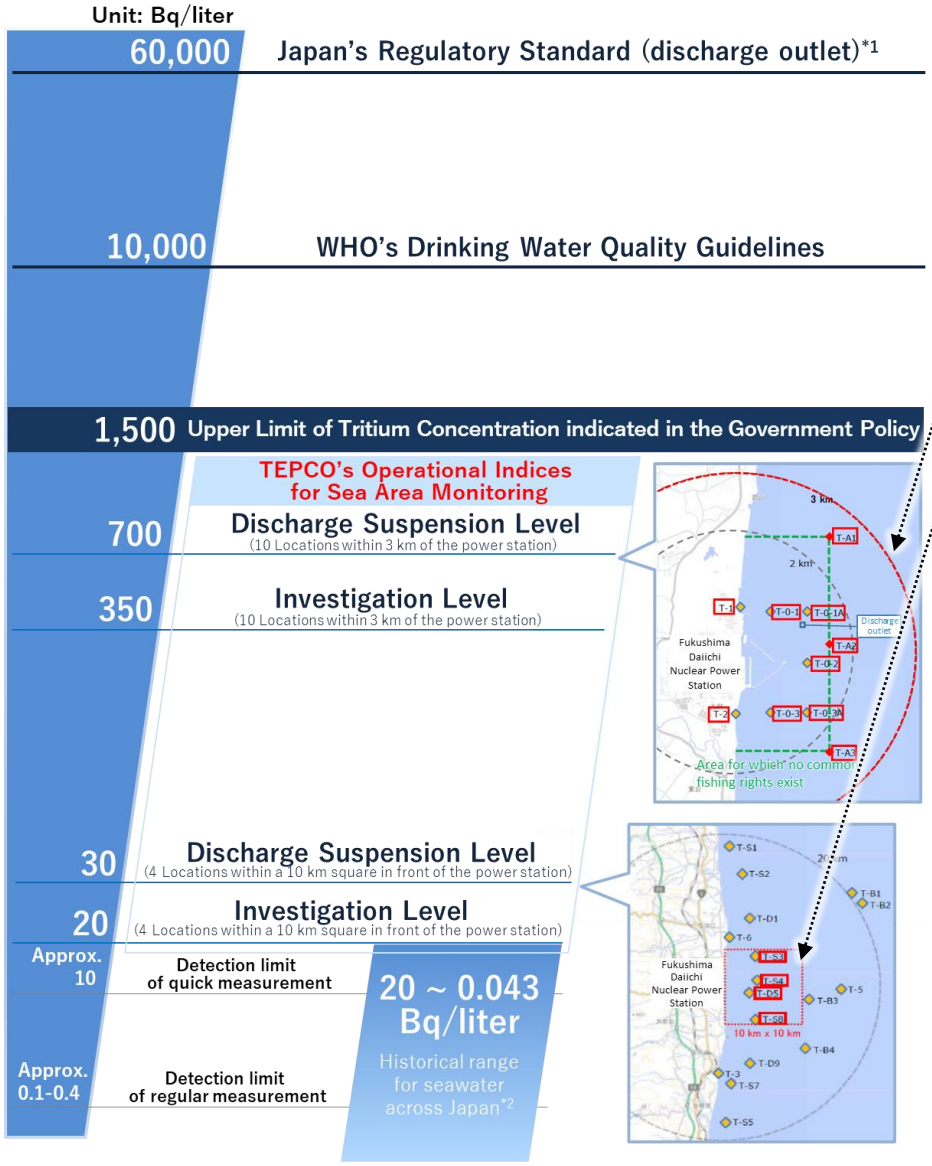
(Unit: Bq/liter)

	Sampling location*3	Frequency	May	June 2025					
			26	2	4	5	9	16	23	30
In the vicinity of the discharge outlet	T-1	Twice a week*1	—	<5.2	—	—	—	—	—	—
	T-2	Twice a week*1	—	<5.2	—	—	—	—	—	—
	T-0-1	Once a day*2	<8.5	<5.9	—	—	<6.9	<6.6	<7.5	<7.4
	T-0-1A	Once a day*2	<8.5	<5.8	—	—	<6.9	<6.6	<7.4	<7.5
	T-0-2	Once a day*2	<8.5	<5.9	—	—	<6.8	<6.6	<7.4	<7.4
	T-0-3A	Twice a week*1	—	<7.2	—	—	—	—	—	—
	T-0-3	Twice a week*1	—	<5.8	—	—	—	—	—	—
	T-A1	Twice a week*1	—	<7.2	—	—	—	—	—	—
	T-A2	Once a day*2	<6.8	<7.2	—	—	<7.2	<8.5	<6.9	<9.6
	T-A3	Twice a week*1	—	<7.2	—	—	—	—	—	—
Outside the vicinity of the discharge outlet	T-D5	Once a week	<6.7	<5.2	—	—	<7.2	<8.5	<6.9	<9.7
	T-S3	Once a month	—	—	<6.6	—	—	—	—	—
	T-S4	Once a month	—	—	<6.6	—	—	—	—	—
	T-S8	Once a month	—	—	—	<6.9	—	—	—	—

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

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

[Reference] 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.

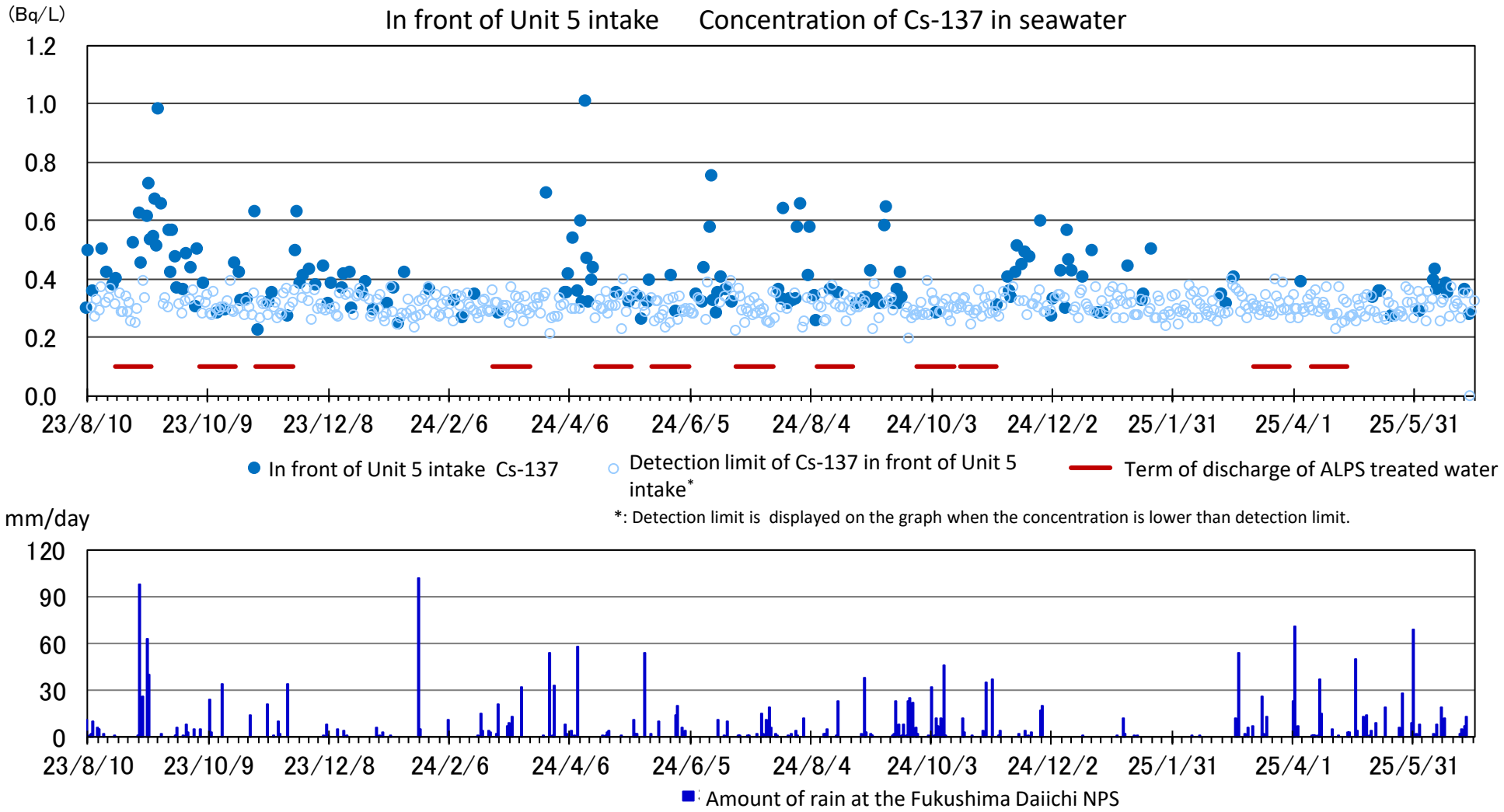
	Discharge suspension level	Investigation level
Within 3km of the power station	700 Bq/L	350 Bq/L
Within a 10km square in front of the power station	30 Bq/L	20 Bq/L

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.

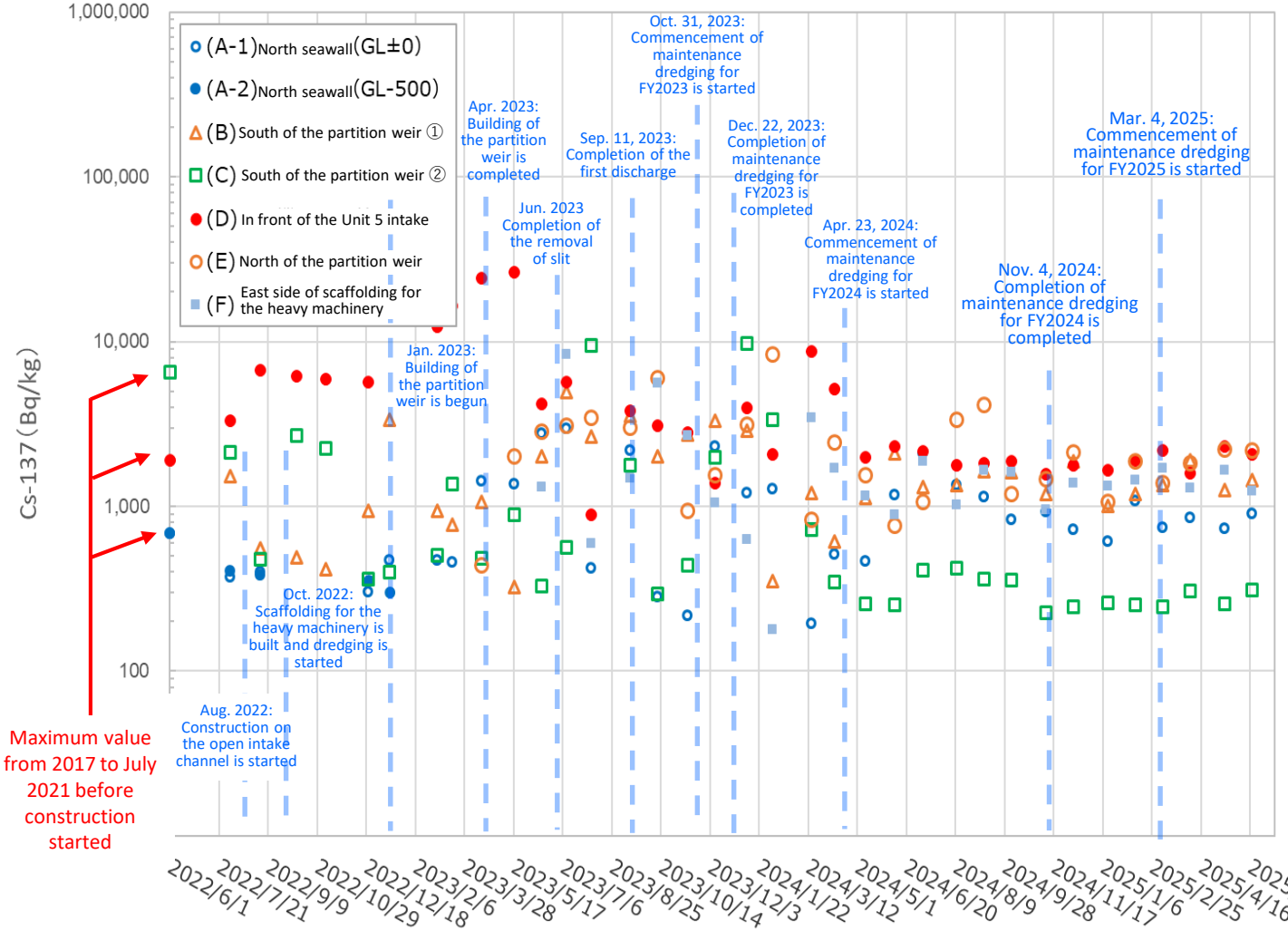
1-2. Unit 5 intake channel monitoring

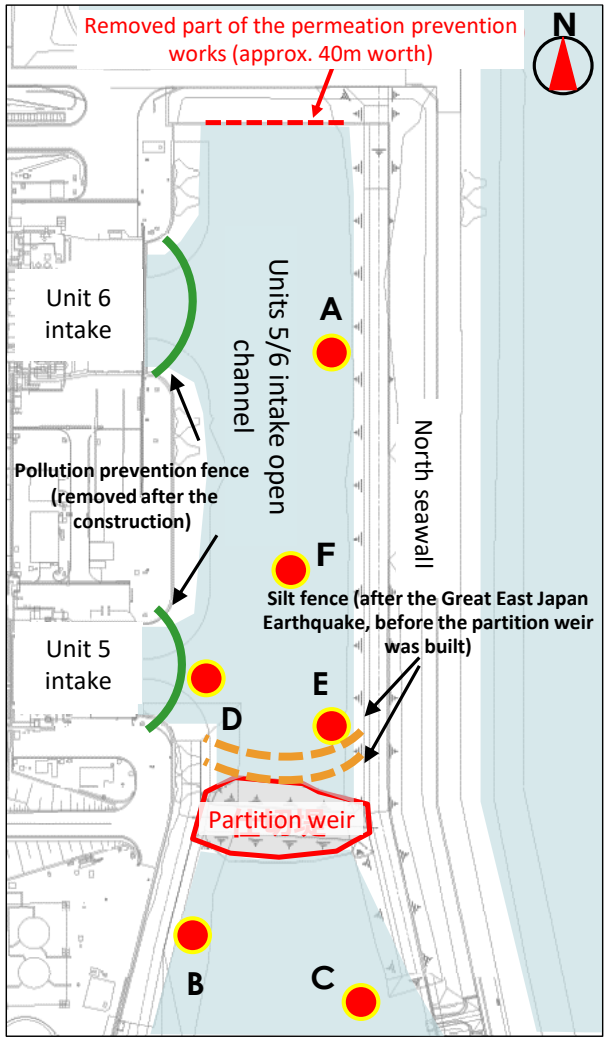
- Sea water monitoring results at near the intake for seawater to be used for dilution during the discharge of ALPS treated water have confirmed that values are similar to those outside of the term of the discharge.



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.

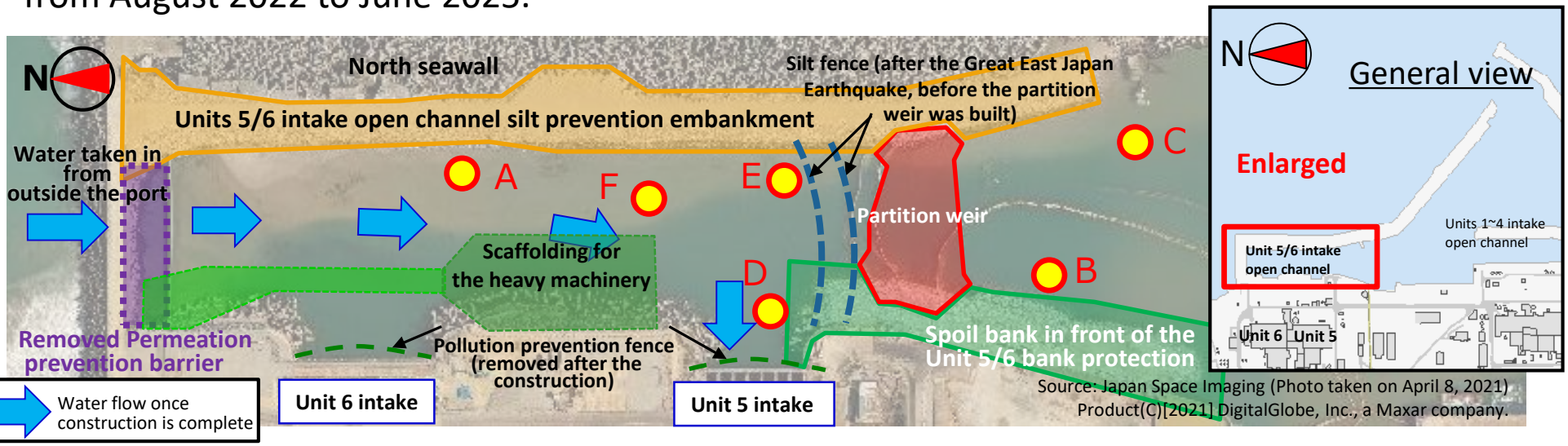




1-3. Monitoring results for seabed soil inside the Unit 5/6 intake open channel (2)

TEPCO

- The following shows monitoring results for seabed soil inside the unit 5/6 intake open channel from August 2022 to June 2025.



Sampling points		Before construction	FY2022	2023	2024												2025					
		2017 to July 2021	Aug. ~ Mar.	Apr. ~ Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.
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	44.5	51.1	34.6	34.4	34.8	53.6	51.4	40.4	59.0	64.5	38.1	57.6	37.4	45.4	38.7	45.0	51.3	47.3
	Cs-137	163.6~678.6	303.2~468.1	216.7~2975.0	1,210.0	1,270.0	195.2	510.4	461.7	1,169.0	2,107.0	1,337.0	1,135.0	826.2	922.9	725.1	615.9	1,079.0	741.1	850.5	727.6	902.6
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	75.2	38.2	52.8	35.1	50.6	48.1	39.7	58.2	55.7	64.5	42.5	57.6	39.4	38.9	48.3	55.0	35.7	40.0
	Cs-137	6,475.0	412.8~3,331.0	323.8~4943.0	2,868.0	353.9	1,205.0	613.8	1,125.0	2,086.0	1,308.0	1,342.0	1,638.0	1,622.0	1,190.0	1,863.0	1,006.0	1,185.0	1,340.0	1,889.0	1,251.0	1,447.0
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	153.3	115.8	42.4	26.5	36.9	39.2	29.5	41.4	38.1	48.6	31.0	29.8	33.8	28.9	39.2	36.7	33.7	50.7
	Cs-137	1,893.0	360.8~2,671.0	295.9~9519.0	9,737.0	3,345.0	723.9	348.9	257.0	253.0	409.7	419.6	361.7	356.2	227.4	246.4	258.6	252.8	245.6	306.9	257.5	311.6
D Unit 5 intake	Cs-134	–	101.6~3,546.0	50.2~690.7	61.8	50.3	177.8	114.8	79.6	50.3	40.3	64.9	69.3	83.5	52.0	50.7	35.9	35.9	39.7	44.4	47.1	53.1
	Cs-137	–	3,301.0~144,000.0	951.7~26400.0	3,981.0	2,069.0	8,661.0	5,140.0	1,970.0	2,305.0	2,166.0	1,763.0	1,834.0	1,866.0	1,563.0	1,773.0	1,656.0	1,898.0	2,175.0	1,587.0	2,306.0	2,064.0
E North side of the partition weir	Cs-134	–		35.6~147.0	64.4	161.2	46.4	40.4	38.3	37.0	41.6	55.0	50.1	55.7	33.1	42.7	38.4	59.7	30.0	44.4	47.4	82.8
	Cs-137	–		437.1~5795.0	3,145.0	8,371.0	829.4	2,427.0	1,551.0	764.6	1,066.0	3,371.0	4,154.0	1,191.0	1,460.0	2,118.0	1,060.0	1,878.0	1,388.0	1,834.0	2,202.0	2,196.0
F East side of scaffolding for the heavy machinery	Cs-134	–		40.2~166.1	58.6	31.3	55.3	37.8	87.1	34.1	40.7	49.1	74.8	58.6	48.2	63.2	40.0	42.8	42.2	50.0	56.4	40.7
	Cs-137	–		592.4~8303.0	630.9	178.7	3,446.0	1,694.0	1,148.0	891.0	1,884.0	1,020.0	1,654.0	1,606.0	955.9	1,392.0	1,332.0	1,447.0	1,710.0	1,295.0	1,664.0	1,235.0

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

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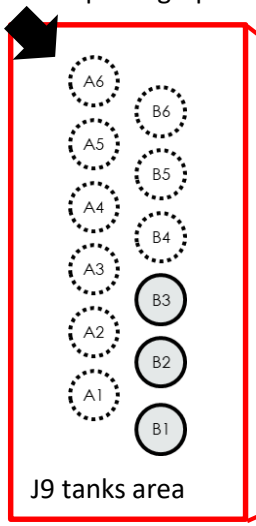
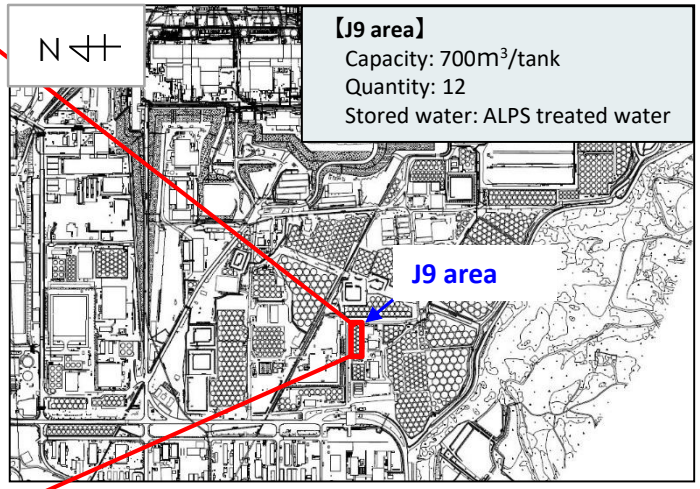
2. Status of dismantling of the J9 area tanks

- On February 13, 2025 the J9 area tanks were taken out of service and dismantling began on February 14, 2025.
- Dismantling of the ninth tank was completed on July 1, 2025.

Direction of photograph



: Dismantling completed



< Tank Dismantling Results >

Tank number	Dismantling completed date	Tank number	Dismantling completed date
A6	Mar 4, 2025	B6	Jun 10, 2025
A5	Mar 14, 2025	B5	Jun 19, 2025
A4	Mar 31, 2025	B4	Jul 1, 2025
A3	Apr 10, 2025	B3	–
A2	Apr 21, 2025	B2	–
A1	May 14, 2025	B1	–

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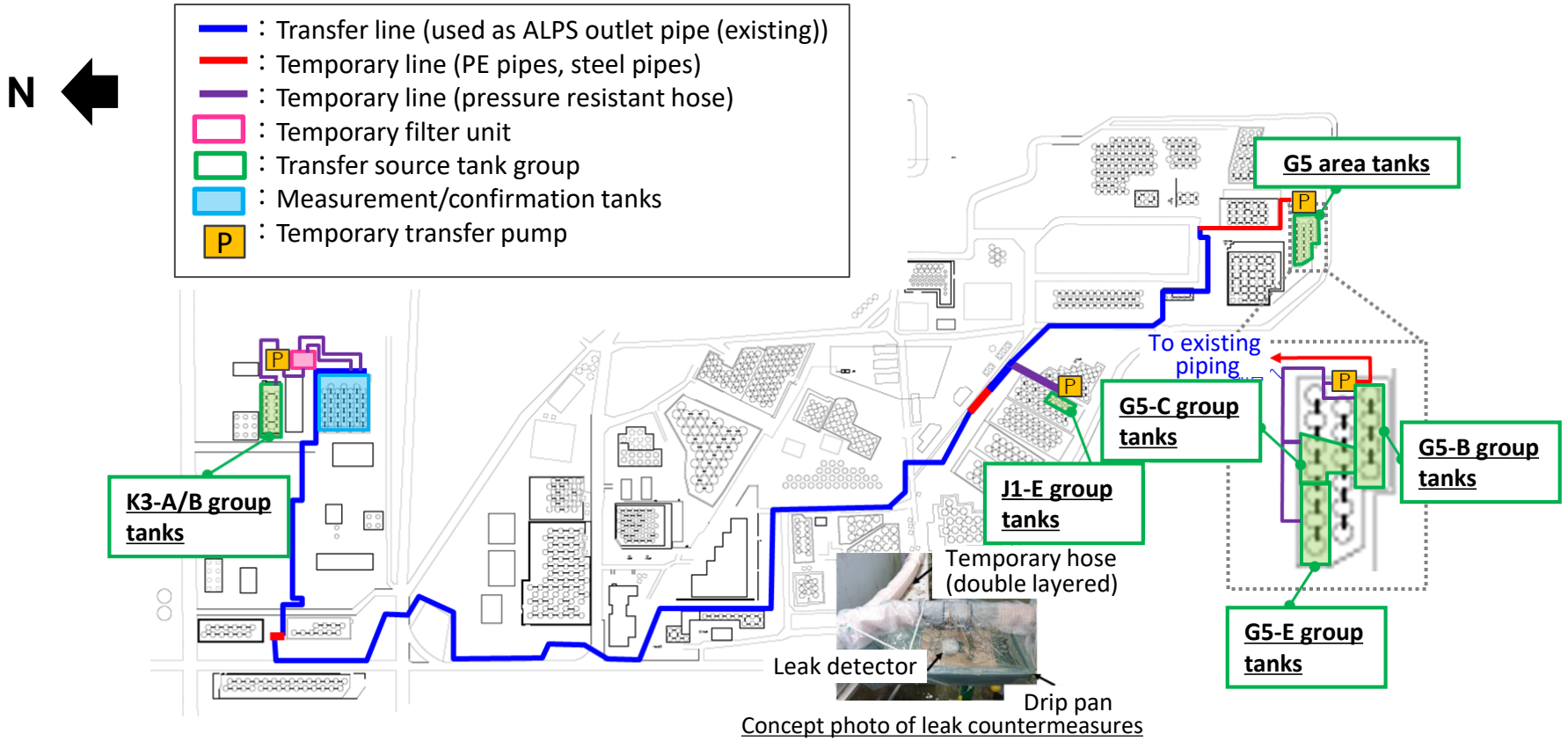
3. Transfer of ALPS treated water in preparation for the future discharges

- Transfer of ALPS treated water from K3 area Group A/B and J1 area Group E to measurement/confirmation facility tank group C in preparation for the discharge of Management number: 25-2-13 has conducted (April 3 to April 25, 2025). Circulation/agitation of the tanks commenced on May 9, 2025 and samples were taken on May 16, 2025. Samples are currently being analyzed.
- Transfer of ALPS treated water from J1 area Group E and G5 area Group E to measurement/confirmation facility tank group A in preparation for the discharge of Management number: 25-3-14 has conducted (May 8 to June 3, 2025). Circulation/agitation of the tanks commenced on June 10, 2025 and samples were taken on June 17, 2025. Samples are currently being analyzed.
- Transfer of ALPS treated water from G5 area Group E/C/B to measurement/confirmation facility tank group B in preparation for the discharge of Management number: 25-4-15 commenced on June 4, 2025 and will be completed on July 4, 2025. Circulation/agitation of the tanks will commence on July 10, 2025 and samples will be taken on July 17, 2025.



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[Reference 1] Changes to internal corporate functions in conjunction with changes to leadership (As of June 26, 2025)

- In August 2023, teams for the interdepartmental supervision of all departments involved was created to promote smooth interaction between Japan and overseas stakeholders as well as the safe discharge of ALPS treated water, and initiatives such as reputational damage measures and compensation, etc.
- In light of changes to leadership made on June 26, 2025, the following changes were made today to this internal corporate functions (changes have been underlined).
- Under the following this internal corporate functions TEPCO will continue to safely and steadily discharge of ALPS treated water and thoroughly implement measures to combat reputational damage.

(1) ALPS Treated Water Unified Countermeasures Project Team

Team Leader	Tomoaki Kobayakawa, President
Deputy Team Leaders	Akira Ono, Executive Vice President Momoko Nagasaki, Executive Vice President Nobuhide Akimoto, Managing Executive Officer Tomomichi Seki, Managing Executive Officer Masayuki Kishino, Managing Executive Officer Akinori Muramatsu, Managing Executive Officer Yoshihiko Shinobu, Managing Executive Officer Shigehiro Yoshino, Director/Executive Officer Tsunemasa Nitsuma, Fellow/Assistant to the President
Team members	General Managers of related Departments/Offices at the Head Office, Fukushima Revitalization Headquarters, and Fukushima D&D Engineering Company

(2) ALPS Treated Water Impact Countermeasures Team

Team Leader	Nobuhide Akimoto, Managing Executive Officer
Assistant Team Leader	Yoichiro Asakawa, General Manager, Plant Siting and Regional Relations Office
Team members	Related workers etc. at the Head Office and Fukushima Revitalization Headquarters

■ ALPS Treated Water Unified Countermeasures Project Team

This project team is under the direct supervision of the President and will supervise the Fukushima Daiichi Nuclear Power Station, and all those departments involved with compensation/reputational damage measures, and regional relations, etc., so as to keep upper management updated about information pertaining to the discharge of ALPS treated water and enable them to quickly give instructions to subordinates.

■ ALPS Treated Water Impact Countermeasures Team

A team that was dedicated to the unified management of distribution countermeasures/compensation measures, and information dissemination across the entire nation has been established at the Head Office and will be under the supervision of Executive Managing Officer.

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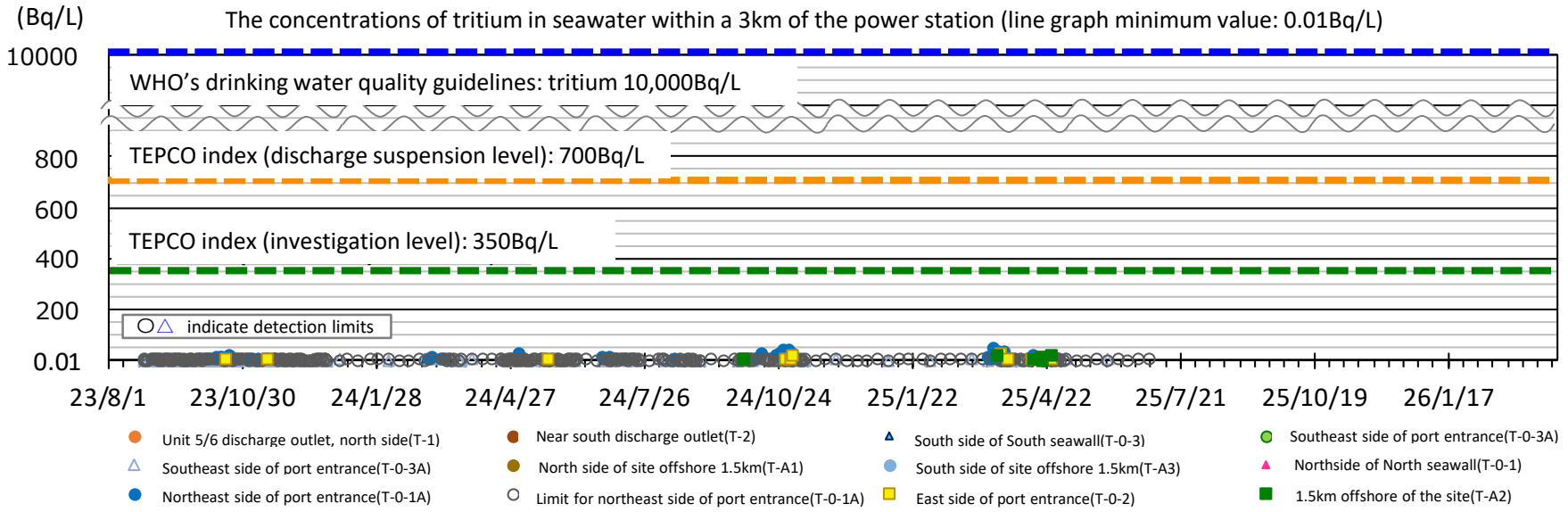
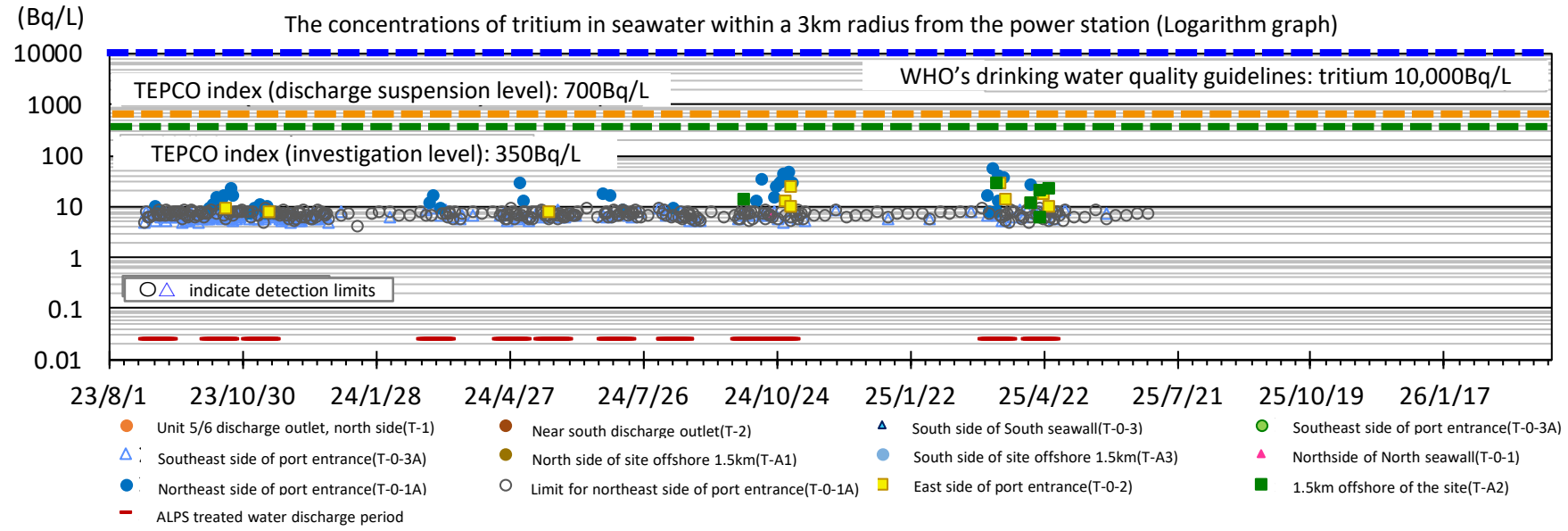
[Reference 2] Sea area monitoring results (1/2)　quick monitoring

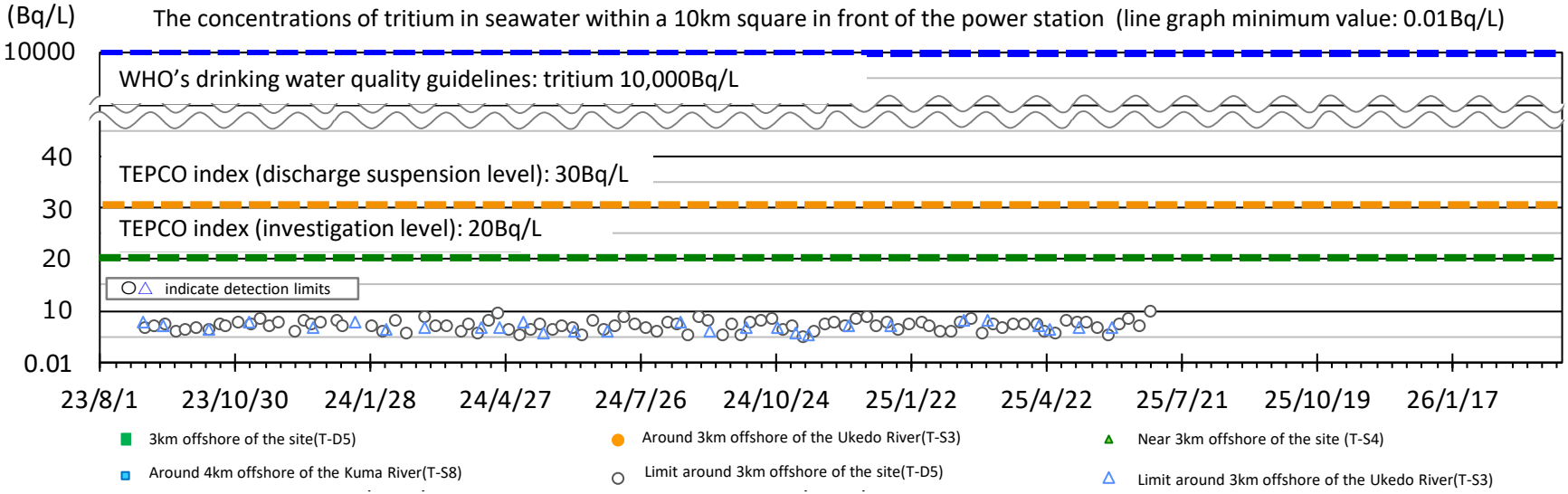
within 3km of the power station

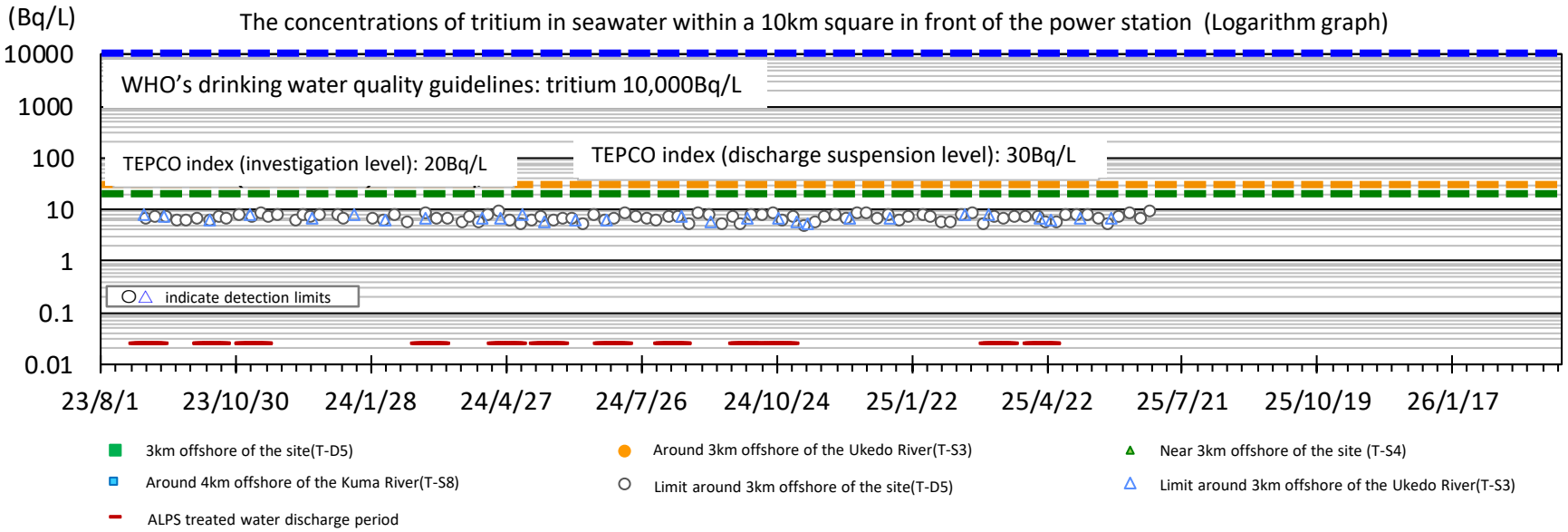




[Reference 2] Sea area monitoring results (2/2)　quick monitoring

within a 10km square in front of the power station





[Reference 2] 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.

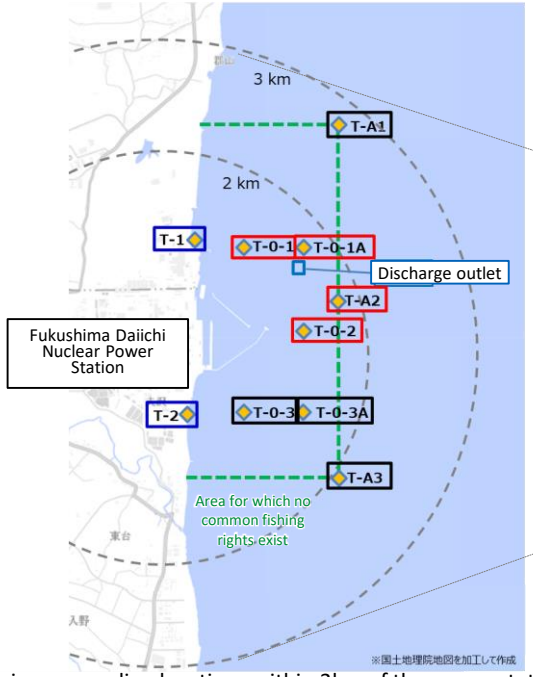


Figure 1: Specimen sampling locations within 3km of the power station (near the discharge outlet)

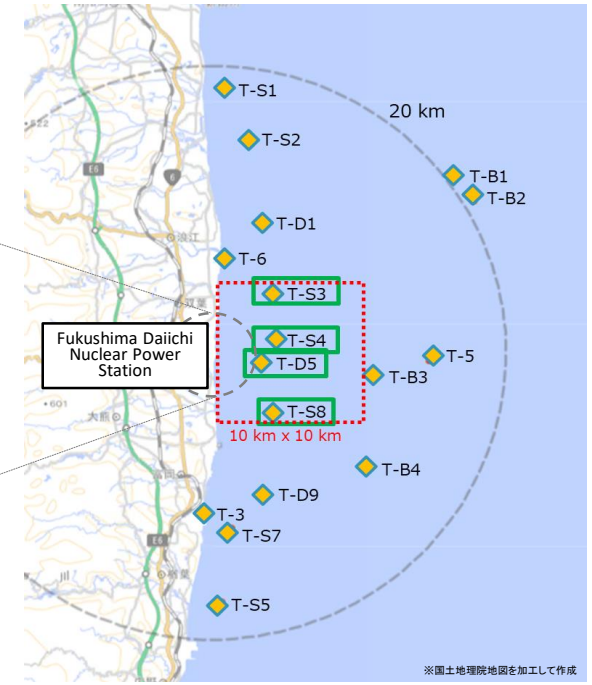


Figure 2: Specimen sampling locations within a 10km square in front of the power station

▭▭▭ : 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 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)