Reference

Radioactivity Density of the Seawater in the Port of Fukushima Daiichi NPS < 1/2 >

(Data summarized on June 20)

Place of Sampling	Shallow Draft Quay at 1F*				Inside Unit 1-4 Water Intake Canal (North) at 1F (North side of the East Seawall Break)		1F Unit 4 Screen (Outside the Silt Fence)		1F Unit 4 Screen (Inside the Silt Fence)		Inside Unit 1-4 Water Intake Canal (South) at 1F		② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
Time of Sampling	Jun 19, 2014 7:18 AM		N/A		Jun 19, 2014 6:55 AM		Jun 19, 2014 7:05 AM		Jun 19, 2014 7:06 AM		Jun 19, 2014 7:00 AM		
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
I-131 (Approx. 8 days)	ND	-	-	-	ND	-	ND	-	ND	-	ND	-	40
Cs-134 (Approx. 2 years)	ND	-	-	-	ND	-	17	0.28	17	0.28	15	0.25	60
Cs-137 (Approx. 30 years)	ND	-	-	-	ND	-	46	0.51	48	0.53	45	0.50	90

* The density specified by the Reactor Regulation is converted from Bq/cm^3 to Bq/L.
* Data of other nuclides is under evaluation.
* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.
* "ND" indicates that the measurement result is below the detection limit.
  I-131: Approx. 3Bq/L, Cs-134: Approx. 2Bq/L, Cs-137: Approx. 3Bq/L
  As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.
  * The sampling will be performed after opening and closing of the silt fence.

Reference

Radioactivity Density of the Seawater in the Port of Fukushima Daiichi NPS < 2/2 >

(Data summarized on June 20)

Place of Sampling	Port Entrance of Fukushima Daiichi NPS*		In Front of Unit 6* Water Intake Canal at 1F										② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
Time of Sampling	N/A		N/A										
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
I-131 (Approx. 8 days)	-	-	-	-									40
Cs-134 (Approx. 2 years)	-	-	-	-									60
Cs-137 (Approx. 30 years)	-	-	-	-									90

* The density specified by the Reactor Regulation is converted from Bq/cm^3 to Bq/L.
* Data of other nuclides is under evaluation.
* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.
* The sampling will be performed once a week (it will be performed on the day when opening and closing of the silt fence is conducted.).

Nuclides Analysis Result of Radioactive Materials in the Unit 1-4 Water Intake <1/7>

(Data summarized on June 20)

Place of Sampling	North of Unit 1-4 Water Intake at Fukushima Daiichi NPS		② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
Date of Sampling	Jun 21, 2013		
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
I-131 (Approx. 8 days)	ND	－	40
Cs-134 (Approx. 2 years)	12	0.20	60
Cs-137 (Approx. 30 years)	28	0.31	90
H-3 (approx. 12yrs)	1,100	0.02	60,000
Gross α	ND	－	－
Gross β	310	－	－
Sr-90 (Approx. 29 years)	260	8.7	30

* The density specified by the Reactor Regulation is converted from Bq/cm^3 to Bq/L.
* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.
* Nuclide analysis results of I-131, Cs-134, Cs-137, and Gross β were announced on June 22, 2013. H-3 was announced on June 24. Sr-90 was announced on April 25, 2014.
* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.
  I-131: Approx. 2.3Bq/L, Gross α: Approx. 2.4Bq/L

(Evaluation)

H-3, Gross β, and Sr-90 were detected supposedly as a result of this accident.

Nuclides Analysis Result of Radioactive Materials in the Unit 1-4 Water Intake <2/7>

(Data summarized on June 20)

Place of Sampling	North of Unit 1-4 Water Intake at Fukushima Daiichi NPS		② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
Date of Sampling	Jul 23, 2013		
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
I-131 (Approx. 8 days)	ND	—	40
Cs-134 (Approx. 2 years)	18	0.30	60
Cs-137 (Approx. 30 years)	40	0.44	90
H-3 (approx. 12yrs)	990	0.02	60,000
Gross α	ND	—	—
Gross β	240	—	—
Sr-90 (Approx. 29 years)	210	7.0	30

* The density specified by the Reactor Regulation is converted from Bq/cm^3 to Bq/L.
* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.
* Nuclide analysis results of I-131, Cs-134, Cs-137, and Gross β were announced on July 24, 2013. H-3 was announced on July 26. Sr-90 was announced on April 25, 2014.
* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.
  I-131: Approx. 3.0Bq/L, Gross α: Approx. 2.4Bq/L

(Evaluation)

H-3, Gross β, and Sr-90 were detected supposedly as a result of this accident.

Nuclides Analysis Result of Radioactive Materials in the Unit 1-4 Water Intake <3/7>

(Data summarized on June 20)

Place of Sampling	North of Unit 1-4 Water Intake at Fukushima Daiichi NPS		② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
Date of Sampling	Aug 22, 2013		
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
I-131 (Approx. 8 days)	ND	—	40
Cs-134 (Approx. 2 years)	24	0.40	60
Cs-137 (Approx. 30 years)	51	0.57	90
H-3 (approx. 12yrs)	2,000	0.03	60,000
Gross α	ND	—	—
Gross β	620	—	—
Sr-90 (Approx. 29 years)	620	21	30

* The density specified by the Reactor Regulation is converted from Bq/cm^3 to Bq/L.
* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.
* Nuclide analysis results of I-131, Cs-134, Cs-137, and Gross β were announced on August 23, 2013. H-3 was announced on August 26. Sr-90 was announced on January 15, 2014.
* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.
  I-131: Approx. 2.3Bq/L, Gross α: Approx. 2.0Bq/L

(Evaluation)

H-3, Gross β, and Sr-90 were detected supposedly as a result of this accident.

Nuclides Analysis Result of Radioactive Materials in the Unit 1-4 Water Intake <4/7>

(Data summarized on June 20)

Place of Sampling	North of Unit 1-4 Water Intake at Fukushima Daiichi NPS		② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
Date of Sampling	Sep 22, 2013		
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
I-131 (Approx. 8 days)	ND	－	40
Cs-134 (Approx. 2 years)	46	0.77	60
Cs-137 (Approx. 30 years)	94	1.0	90
H-3 (approx. 12yrs)	3,000	0.05	60,000
Gross α	ND	－	－
Gross β	810	－	－
Sr-90 (Approx. 29 years)	720	24	30

* The density specified by the Reactor Regulation is converted from Bq/cm^3 to Bq/L.
* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.
* Nuclide analysis results of I-131, Cs-134, Cs-137, and Gross β were announced on September 23, 2013. H-3 was announced on September 25. Sr-90 was announced on January 15, 2014.
* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.
I-131: Approx. 4.1Bq/L, Gross α: Approx. 0.13Bq/L

(Evaluation)

H-3, Gross β, and Sr-90 were detected supposedly as a result of this accident.

Nuclides Analysis Result of Radioactive Materials in the Unit 1-4 Water Intake <5/7>

(Data summarized on June 20)

Place of Sampling	North of Unit 1-4 Water Intake at Fukushima Daiichi NPS		② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
Date of Sampling	Oct 20, 2013		
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
I-131 (Approx. 8 days)	ND	－	40
Cs-134 (Approx. 2 years)	36	0.60	60
Cs-137 (Approx. 30 years)	65	0.72	90
H-3 (approx. 12yrs)	1,600	0.03	60,000
Gross α	ND	－	－
Gross β	590	－	－
Sr-90 (Approx. 29 years)	480	16	30

* The density specified by the Reactor Regulation is converted from Bq/cm^3 to Bq/L.
* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.
* Nuclide analysis results of I-131, Cs-134, Cs-137, and Gross β were announced on October 21, 2013. H-3 was announced on October 23. Sr-90 was announced on January 15, 2014.
* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.
  I-131: Approx. 3.3Bq/L, Gross α: Approx. 0.13Bq/L

(Evaluation)

H-3, Gross β, and Sr-90 were detected supposedly as a result of this accident.

Nuclides Analysis Result of Radioactive Materials in the Unit 1-4 Water Intake <6/7>

(Data summarized on June 20)

Place of Sampling	North of Unit 1-4 Water Intake at Fukushima Daiichi NPS		② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
Date of Sampling	Nov 17, 2013		
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
I-131 (Approx. 8 days)	ND	－	40
Cs-134 (Approx. 2 years)	25	0.42	60
Cs-137 (Approx. 30 years)	48	0.53	90
H-3 (approx. 12yrs)	1,100	0.02	60,000
Gross α	ND	－	－
Gross β	400	－	－
Sr-90 (Approx. 29 years)	330	11	30

* The density specified by the Reactor Regulation is converted from Bq/cm^3 to Bq/L.
* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.
* Nuclide analysis results of I-131, Cs-134, and Cs-137 were announced on November 18, 2013. Gross β was announced on November 17, 2013. H-3 was announced on November 21. Sr-90 was announced on May 28, 2014.
* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.
  I-131: Approx. 3.6Bq/L, Gross α: Approx. 0.13Bq/L

(Evaluation)

H-3, Gross β, and Sr-90 were detected supposedly as a result of this accident.

Nuclides Analysis Result of Radioactive Materials in the Unit 1-4 Water Intake <7/7>

(Data summarized on June 20)

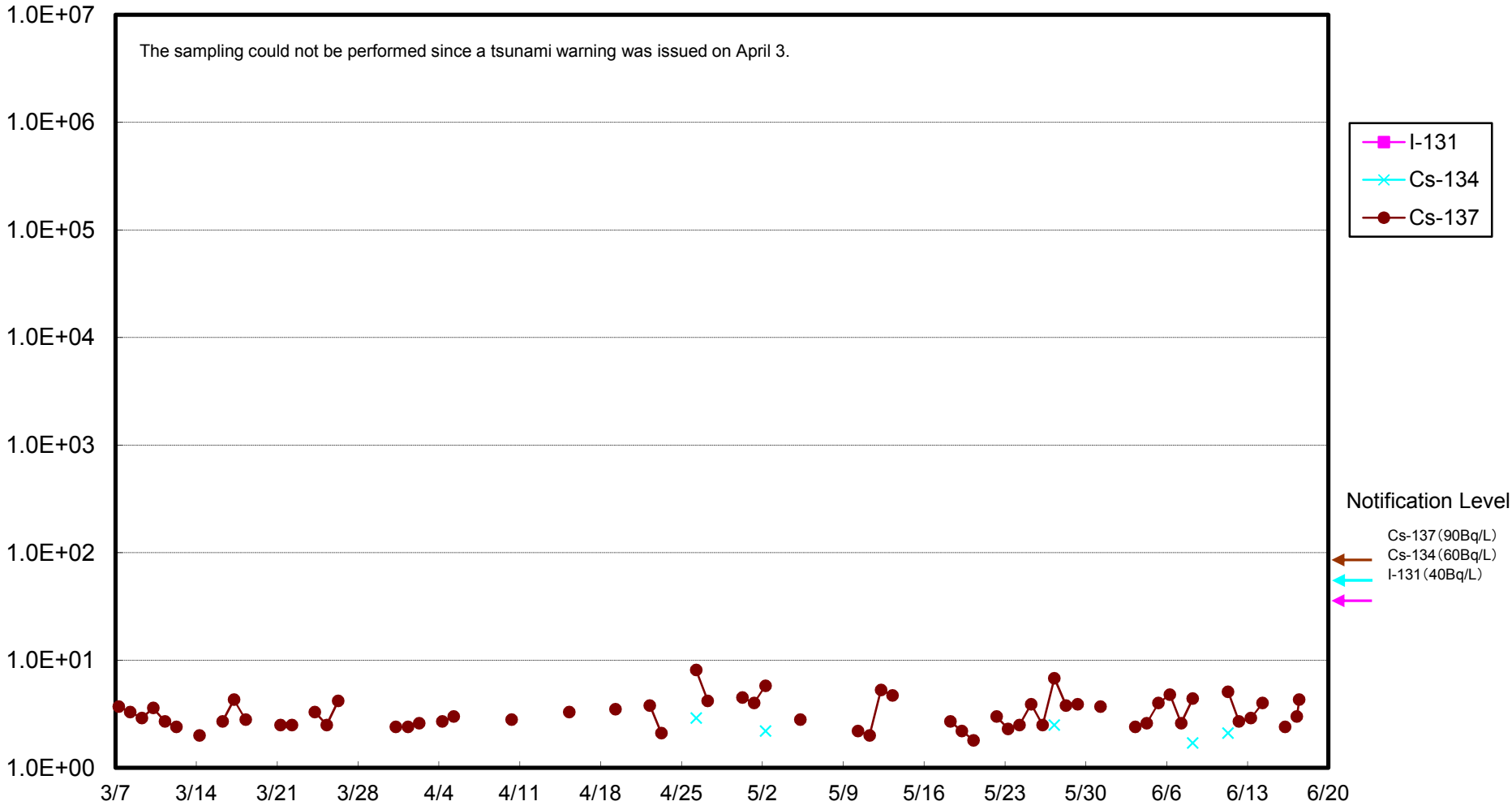
Place of Sampling	North of Unit 1-4 Water Intake at Fukushima Daiichi NPS		② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
Date of Sampling	Dec 22, 2013		
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
I-131 (Approx. 8 days)	ND	—	40
Cs-134 (Approx. 2 years)	46	0.77	60
Cs-137 (Approx. 30 years)	110	1.2	90
H-3 (approx. 12yrs)	620	0.01	60,000
Gross α	ND	—	—
Gross β	280	—	—
Sr-90 (Approx. 29 years)	220	7.3	30

* The density specified by the Reactor Regulation is converted from Bq/cm^3 to Bq/L.
* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.
* Nuclide analysis results of I-131, Cs-134, Cs-137, and Gross β were announced on December 23, 2013. H-3 was announced on December 25. Sr-90 was announced on May 28, 2014.
* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.
  I-131: Approx. 4.4Bq/L, Gross α: Approx. 0.12Bq/L

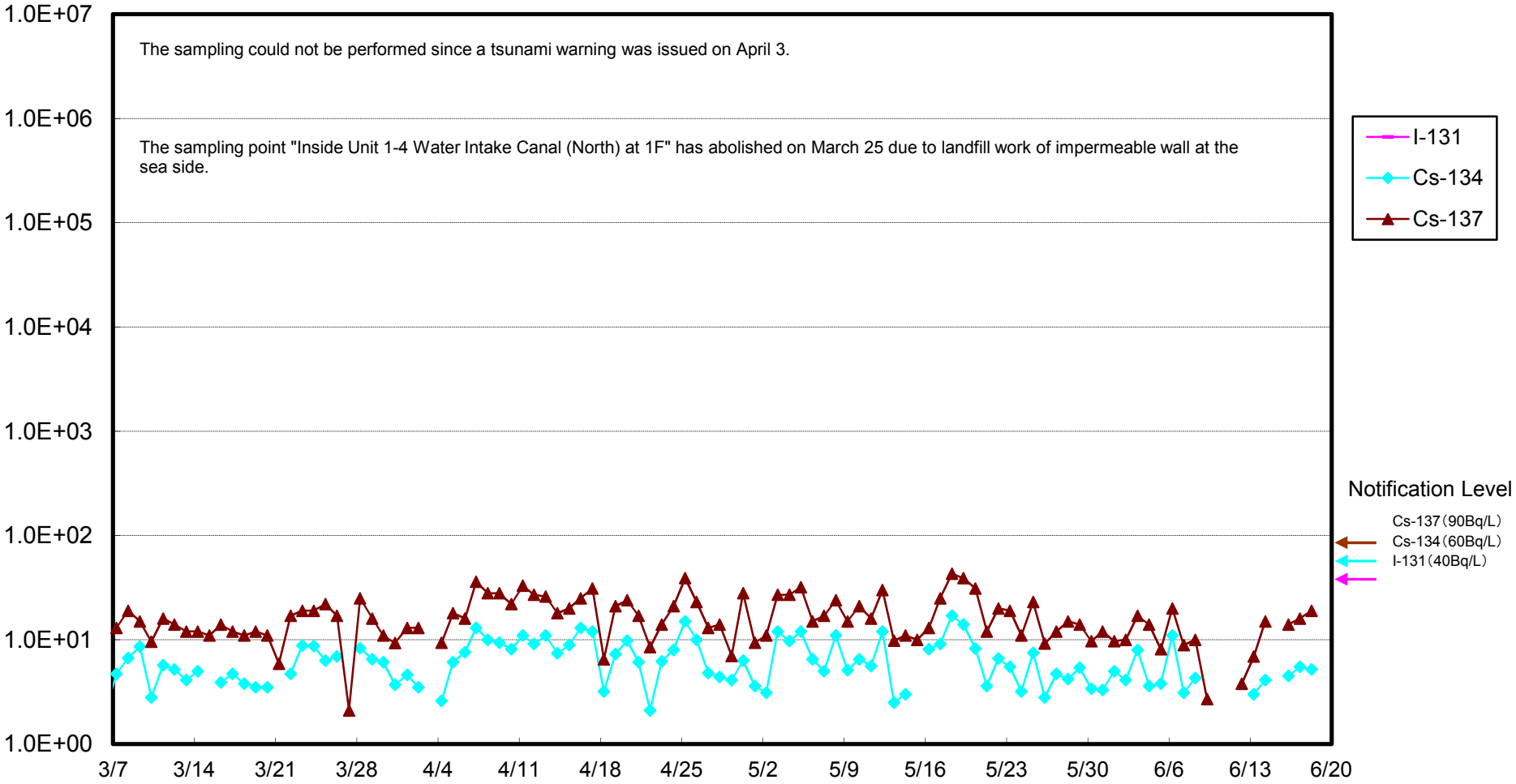
(Evaluation)

H-3, Gross β, and Sr-90 were detected supposedly as a result of this accident.

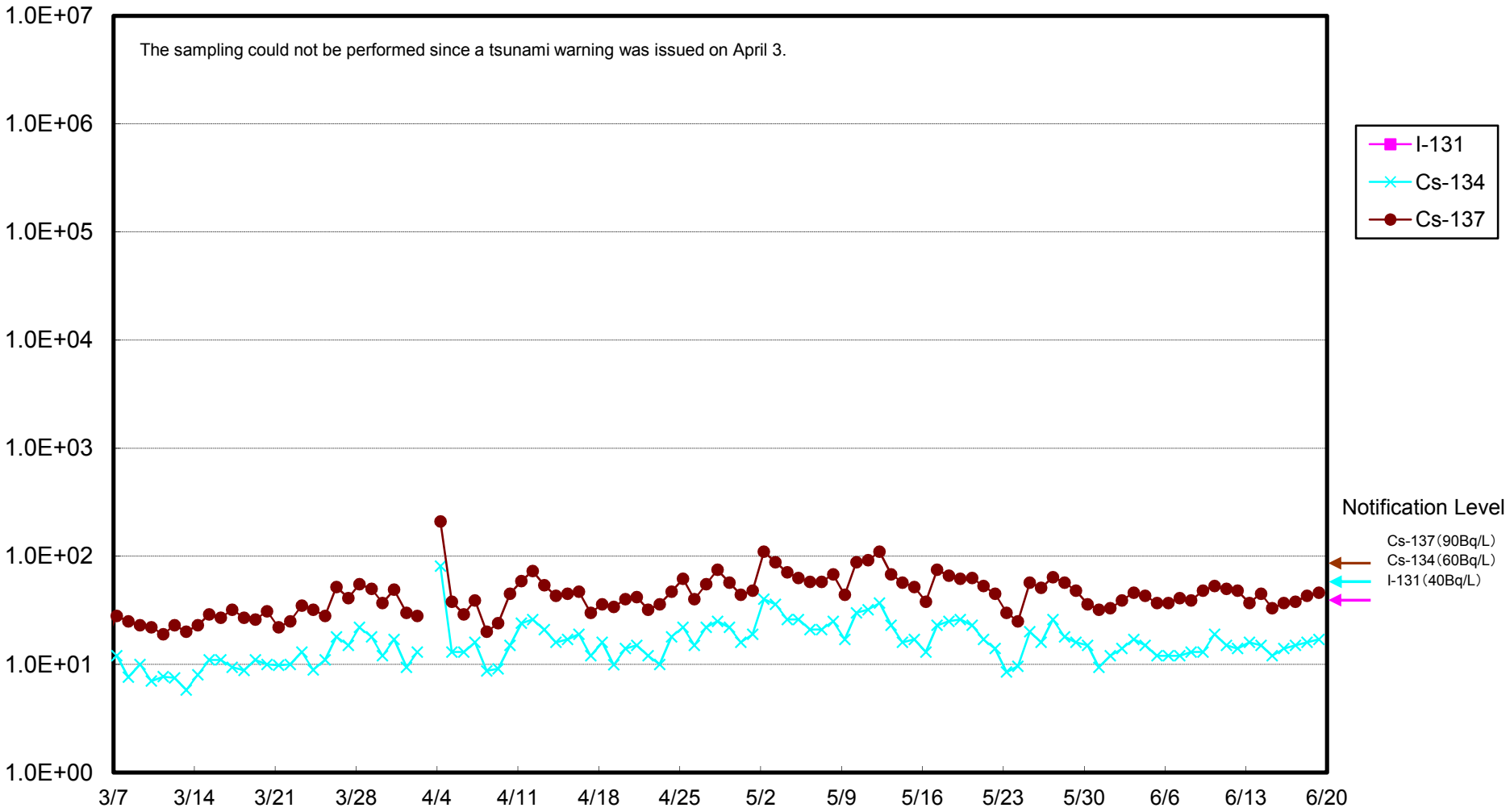
Radioactivity Density of the Seawater in Front of the Shallow Draft Quay at 1F (Bq/L)



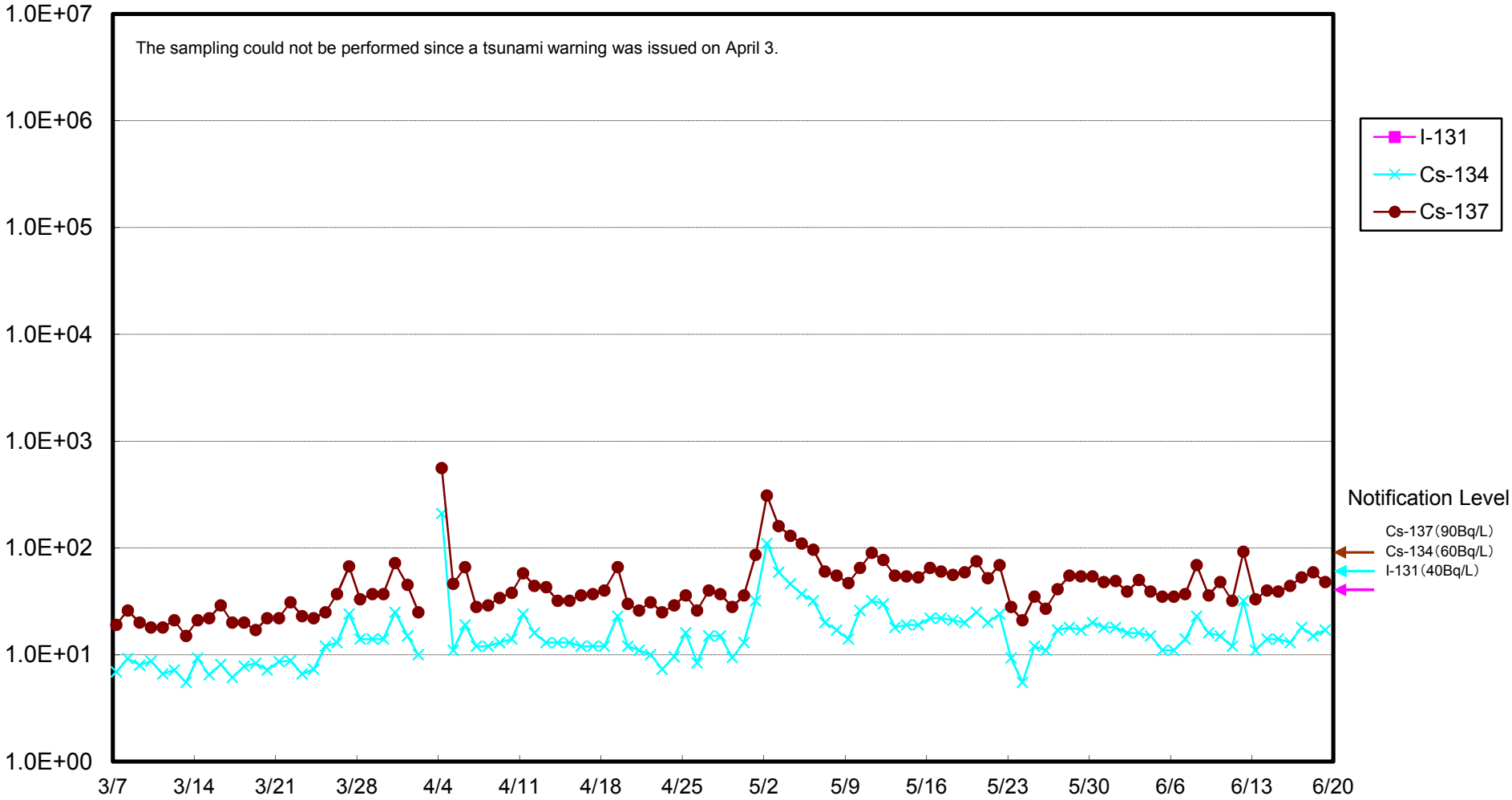
Radioactivity Density of the Seawater at the North of Unit 1-4 Water Intake (North of East Seawater Break of Fukushima Daiichi NPS (Bq/ L)



Radioactivity Density of the Seawater at Unit 4 Screen at 1F (Outside the Silt Fence) (Bq/L)



Radioactivity Density of the Seawater at Unit 4 Screen at 1F (Inside the Silt Fence) (Bq/L)



Radioactivity Density of the Seawater at the South of Unit 1-4 Water Intake of Fukushima Daiichi NPS (Bq/L)