## Results of Nuclide Analysis of Seawater <Coast>

Reference

(Data summarized on : June 24)

Place of Sampling			Channel of 5-6u 5-6u discharge			Around South Discharge Channel of 1F ( appox. 330m south of 1-4u Discharge Channel)				Around North Discharge Channel of 2F ( Around 3,4u Discharge Channel) ( approx. 10 km from 1F )		wa Shore of m south of e Channel) b km from	Density limit by the announcement of Reactor Regulation (Bq/L) (the density limit
Time and Date of Sample Collection	9:10 a June 23,		1:50 p June 23,			8:55 am 1:35 pm 8:20 am June 23, 2011 June 23, 2011 June 23, 2011			7:55 am June 23, 2011		in the water outside of surrounding monitored areas in		
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor ( / )	Density of Sample (Bq/L)	Scaling Factor ( / )	Density of Sample (Bq/L)	Scaling Factor ( / )	Density of Sample (Bq/L)	Scaling Factor ( / )	Density of Sample (Bq/L)	Scaling Factor ( / )	Density of Sample (Bq/L)	Scaling Factor ( / )	the section 6 of the appendix 2)
I-131 (about 8 days)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	40
Cs-134 (about 2 years)	16	0.27	19	0.32	12	0.20	25	0.42	ND	-	ND	-	60
Cs-137 (about 30 years)	18	0.20	17	0.19	10	0.11	ND	-	ND	-	ND	-	90

Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 to Bq/L

Data of other nuclides are under evaluation.

In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

In the case that the data is below measurable limit, "ND" is stated.

Detection limits of the three main nuclides are as follows: I-131: approx. 5Bq/L, Cs-134 : approx. 4Bq/L, Cs-137 : approx. 15Bq/L.

## Results of Nuclide Analysis of Seawater < Offshore 1/3 >

Reference

(Data summarized on : June 24)

Place of Sampling	15 km offsh MinamiSour Upper la	na City	15 km offshore of MinamiSouma City Lower layer		a City Ukedo-gawa		Ukedo-ga	15 km offshore of Ukedo-gawa Lower layer		15 km offshore of Fukushima Daiichi Upper layer		ore of Daiichi yer	Density limit by the announcement of
Time and Date of Sample Collection	10:20 June 23,		10:30 June 23,		Not abbli	cable	Not abblicable		Not abblicable		Not abblicable		Reactor Regulation (Bq/L) (the density limit in
Detected Nuclides (Half-life)	Density of Sample (Bq/cm3)	Scaling Factor ( / )	Density of Sample ( Bq/cm3)	Scaling Factor ( / )	Density of Sample ( Bq/cm3)	Scaling Factor ( / )	Density of Sample ( Bq/cm3)	Scaling Factor ( / )	Density of Sample (Bq/cm3)	Scaling Factor ( / )	Density of Sample ( Bq/cm3)	Scaling Factor ( / )	the water outside of surrounding monitored areas in the section 6 of the appendix 2)
l-131 (about 8 days)	ND	-	ND	-									40
Cs-134 (about 2 years)	14	0.23	ND	-									60
Cs-137 (about 30 years)	ND	-	ND	-									90

Place of Sampling	15 km offshore of 15 km offshore of Fukushima Daini Fukushima Daini Upper layer Lower layer		Daini	15 km offshore of Iwasawa Shore Upper layer		15 km offshore of Iwasawa Shore Lower layer		15 km offshore of Hirono- machi Upper layer		15 km offshore of Hirono- machi Lower layer		Density limit by the announcement of	
Time and Date of Sample Collection	Not abblicable		Not abblicable		8:45 am June 23, 2011		8:45 am June 23, 2011			9:30 am June 23, 2011		um 2011	Reactor Regulation (Bq/L) (the density limit in
Detected Nuclides (Half-life)	Density of Sample ( Bq/cm3)	Scaling Factor ( / )	Density of Sample ( Bq/cm3)	Scaling Factor ( / )	Density of Sample (Bq/cm3)	Scaling Factor ( / )	the water outside of surrounding monitored areas in the section 6 of the appendix 2)						
l-131 (about 8 days)					ND	-	ND	-	ND	-	ND	-	40
Cs-134 (about 2 years)			$\nearrow$		ND	-	ND	-	ND	-	ND	-	60
Cs-137 (about 30 years)					ND	-	ND	-	ND	-	ND	-	90

Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 to Bq/L

Data of other nuclides are under evaluation.

In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

In the case that the data is below measurable limit (aproximately 6Bq/L for I-131), "ND" is stated.

Detection limits of the three main nuclides are as follows: I-131: approx. 5Bq/L, Cs-134: 13Bq/L, Cs-137: 15Bq/L

Results of Nuclide Analysis of Seawater < Offshore 2/3 >

Reference

(Data summarized on : June 24)

Place of Sampling	3km offshore of distric Upper la	ct	3km offshore of distric Lower la	et	3km offshore distric Upper la	ct	3km offshore distric Lower la	ot	3km offshore o coast Upper la		3km offshore o coast Lower la		Density limit by the announcement of
Time and Date of Sample Collection	9:50 a June 23,		9:50 a June 23,	-	9:35 a June 23,		9:35 a June 23,		7:45 a June 23,		7:45 a June 23,		Reactor Regulation (Bq/L) (the density limit in
Detected Nuclides (Half-life)	Density of Sample (Bq/cm3)	Scaling Factor ( / )	Density of Sample (Bq/cm3)	Scaling Factor ( / )	Density of Sample ( Bq/cm3)	Scaling Factor ( / )	Density of Sample ( Bq/cm3)	Scaling Factor ( / )	Density of Sample (Bq/cm3)	Scaling Factor ( / )	Density of Sample (Bq/cm3)	Scaling Factor ( / )	the water outside of surrounding monitored areas in the section 6 of the appendix 2)
I-131 (about 8 days)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	40
Cs-134 (about 2 years)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	60
Cs-137 (about 30 years)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	90

Place of Sampling	8km offshore distric Upper la	ot	8km offshore distric Lower la	ct	8km offshore o coast Upper la		8km offshore o coast Lower la						Density limit by the announcement of
Time and Date of Sample Collection	9:15 a June 23,		9:15 a June 23,		8:10 a June 23,		8:10 a June 23,						Reactor Regulation (Bq/L) (the density limit in
Detected Nuclides (Half-life)	Density of Sample (Bq/cm3)	Scaling Factor ( / )	Density of Sample (Bq/cm3)	Scaling Factor ( / )	Density of Sample ( Bq/cm3)	Factor	the water outside of surrounding monitored areas in the section 6 of the appendix 2)						
I-131 (about 8 days)	ND	-	ND	-	ND	-	ND	-					40
Cs-134 (about 2 years)	ND	-	ND	-	ND	-	ND	-					60
Cs-137 (about 30 years)	ND	-	ND	-	ND	-	ND	-					90

Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 to Bq/L

Data of other nuclides are under evaluation.

In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

In the case that the data is below measurable limit (aproximately 6Bq/L for I-131), "ND" is stated.

Detection limits of the three main nuclides are as follows: I-131: approx. 5Bq/L, Cs-134: 13Bq/L, Cs-137: 15Bq/L

Results of Nuclide Analysis of Seawater < Offshore 3/3 >

Reference

(Data summarized on : June 24)

Place of Sampling	North Iwaki C 3km Upper La		North Iwaki ( 3km Lower La		Natsui-gawa 3km Upper La		Natsui-gawa 3km Lower La		Onahama Port 3km Upper La		Onahama Port 3km Lower La		Density limit by the announcement of Reactor Regulation
Time and Date of Sample Collection	6:30 a June 23,		6:30 a June 23,		6:10 a June 23,		6:10 a June 23,		6:00 a June 23,		6:00 a June 23,		(Bq/Ľ) (the density limit in
Detected Nuclides (Half-life)	Density of Sample ( Bq/cm3)	Scaling Factor ( / )	Density of Sample (Bq/cm3)	Scaling Factor ( / )	Density of Sample ( Bq/cm3)	Scaling Factor ( / )	the water outside of surrounding monitored areas in the section 6 of the appendix 2)						
I-131 (about 8 days)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	40
Cs-134 (about 2 years)	ND	-	ND	-	ND	-	16	0.27	5.6	0.09	ND	-	60
Cs-137 (about 30 years)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	90

Place of Sampling	Ena Offshoi Upper La		Ena Offshore 3km Lower Layer		Numanouchi Offshore 3km Upper Layer		3km	Numanouchi Offshore 3km Lower Layer		Toyoma Offshore 3km Upper Layer		nore 3km ayer	Density limit by the announcement of Reactor Regulation
Time and Date of Sample Collection	6:15 a June 23,		6:15 a June 23,		6:00 a June 23,		6:00 a June 23,		5:50 a June 23,				(Bq/Ľ) (the density limit in
Detected Nuclides (Half-life)	Density of Sample ( Bq/cm3)	Scaling Factor ( / )	Density of Sample ( Bq/cm3)	Scaling Factor ( / )	Density of Sample ( Bq/cm3)	Scaling Factor ( / )	Density of Sample ( Bq/cm3)	Scaling Factor ( / )	Density of Sample (Bq/cm3)	Scaling Factor ( / )	Density of Sample ( Bq/cm3)	Scaling Factor ( / )	the water outside of surrounding monitored areas in the section 6 of the appendix 2)
l-131 (about 8 days)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	40
Cs-134 (about 2 years)	ND	-	ND	-	ND	-	ND	-	ND	-	13	0.22	60
Cs-137 (about 30 years)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	90

Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 to Bq/L

Data of other nuclides are under evaluation.

In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

In the case that the data is below measurable limit (aproximately 6Bq/L for I-131), "ND" is stated.

Detection limits of the three main nuclides are as follows: I-131: approx. 5Bq/L, Cs-134: 14Bq/L, Cs-137: 15Bq/L

Reference

## Results of Nuclide Analysis of Seawater <Coast>

(Data summarized on : June 24)

Place of Sampling	North of Dis Channel of 5-6 (approx. 30m n 5-6u discharge	Su of 1F North of	Around South D Channel of (appox. 330m 1-4u Disch Channel	Density limit by the announcement of Reactor Regulation (Bq/L)			
Time and Date of Sample Collection	10:20 a June 13, 2		9:25 ar June 13, 2		(the density limit in the water outside of surrounding		
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor ( / )	Density of Sample (Bq/L)	Scaling Factor ( / )	monitored areas in the section 6 of the appendix 2)		
I-131 (about 8 days)	ND	-	ND	-	40		
Cs-134 (about 2 years)	21	0.35	24	0.40	60		
Cs-137 (about 30 years)	30	30 0.33		0.28	90		
H-3 (about 12 years)	ND	-	ND	-	60000		

Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 to Bq/L

In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

I-131,Cs-134 and Cs-137 were released on June 14th.

(Analysis)

H-3 was not detected.

Results of Nuclide Analysis of Seawater < Offshore >

Reference

(Data summarized on : June 24)

Place of Sampling	15 km offsh Fukushima I Upper la	Daiichi	15 km offsh Fukushima I Lower la	Daiichi	Density limit by the announcement of Reactor Regulation	
Time and Date of Sample Collection	9:20 a June 14,	-	8:50 a June 14,		(Bq/L) (the density limit in the water outside	
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor ( / )	Density of Sample (Bq/L)	Scaling Factor ( / )	of surrounding monitored areas in the section 6 of the appendix 2)	
l-131 (about 8 days)	ND	-	ND	-	40	
Cs-134 (about 2 years)	ND	-	ND	-	60	
Cs-137 (about 30 years)	ND	-	ND	-	90	
H-3 (about 12 years)			ND	-	60000	

Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 to Bq/L

In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

I-131,Cs-134 and Cs-137 were released on June 15th.

(Analysis)

H-3 was not detected.