## Nuclide Analysis Results of Radioactive Materials in Seawater < Coast>

Reference

(Data summarized on February 7)

Place of Sampling	North of Discha of 5-6u of (approx. 30m n discharge of	of 1F orth of 5-6u	Around South Channel ( appox. 330m of Discharge (	of 1F south of 1-4u	Around North Channel ( Around 3,4u Chanr ( approx. 10 ki	of 2F I Discharge nel)	Around Iwasawa ( appox. 7 km : Discharge ( ( appox. 16 kr	south of 1,2u Channel)	Density limit by the announcement of Reactor Regulation (Bg/L)	
Time of Sampling	Feb 06, 2012 08:30 am		Feb 06, 08:15		Feb 06, 08:25		Feb 06, 2012 08:05 am		(the density limit in the water outside of surrounding monitored	
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 ( / )	areas in the section 6 of the appendix 2)	
I-131 (about 8 days)	ND	-	ND	-	ND	-	ND	-	40	
Cs-134 (about 2 years)	4.5	0.08	1.2	0.02	1.1	0.02	0.96	0.02	60	
Cs-137 (about 30 years)	5.7	0.06	2.0	0.02	1.7	0.02	ND	-	90	

<sup>\*</sup> Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 to Bq/L.

Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.

<sup>\*</sup> Data of other nuclides are under evaluation.

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

<sup>\* &</sup>quot;ND" means the sampled data is below measurable limit.

I-131: approx. 0.73Bq/L, Cs-137: approx. 1.1Bq/L

## Nuclide Analysis Results of Radioactive Materials in Seawater < Offshore>

Reference

(Data summarized on February 7)

Place of Sampling	Minami-Souma M		15 km offshore of Minami-Souma CityLower Layer		15 km offshore of Ukedo-gawa Upper Layer		15 km offshore of Ukedo-gawa Lower Layer		15 km offshore of Fukushima Daiichi Upper Layer		15 km offshore of Fukushima Daiichi Lower Layer		Density limit by the announcement of Reactor Regulation (Bq/L) (the density limit in the
Time of Sampling	ng N/A		N/A		Feb 05, 2012 09:30 am		Feb 05, 2012 09:30 am		Feb 05, 2012 09:00 am		Feb 05, 2012 09:00 am		
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	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

Place of Sampling	15 km offsh Fukushima Da Layei	ini Upper	15 km offshore of Fukushima Daini Lower Layer		15 km offshore of Iwasawa Shore Upper Layer		15 km offshore of Iwasawa Shore Lower Layer		15 km offshore of Hirono-town Upper Layer		15 km offshore of Hirono-town Lower Layer		Density limit by the announcement of Reactor Regulation
Time of Sampling	Feb 05, 2 08:20 a		Feb 05, 2 08:20 a	-	N/A		N/A		N/A		N/A		(Bq/L) (the density limit in the
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	water outside of surrounding monitored areas in the section 6 of the appendix 2)
I-131 (about 8 days)	ND	-	ND	-	-	-	-	-	-	-	-	-	40
Cs-134 (about 2 years)	ND	-	ND	-	-	-	-	-	-	-	-	-	60
Cs-137 (about 30 years)	ND	-	ND	-	-	-	-	-	-	-	-	-	90

<sup>\*</sup> Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 to Bq/L.

Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.

<sup>\*</sup> Data of other nuclides are under evaluation.

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

<sup>\* &</sup>quot;ND" means the sampled data is below measurable limit.

I-131: approx. 0.72Bq/L, Cs-134: approx. 0.88Bq/L, Cs-137: approx. 1.1Bq/L

### Result of Pu Analysis of Seawater

## 1. Place of Sampling:

North Discharge Channel of Unit 5 and 6 of Fukushima Daiichi Nuclear Power Station Around South Discharge Channel of Fukushima Daiichi Nuclear Power Station Upper Layer around approx. 15km offshore of Fukushima Daiichi Nuclear Power Station Upper Layer around approx. 15km offshore of Fukushima Daini Nuclear Power Station

- 2. Analysis Institute: Japan Chemical Analysis Center
- 3. Result of Measurement:

(Unit: Bq/L)

Place of Sampling	Date	Pu-238	Pu-239, Pu-240			
North Discharge Channel		N.D. [<5.5×10 <sup>-4</sup> ]	N.D. [<5.8×10 <sup>-4</sup> ]			
of Unit 5 and 6 of 1F	1/16	N.D. [<3.3 x 10 ]	N.D. [<0.0 x 10 ]			
Around South Discharge	17 10	N.D. [<5.2×10 <sup>-4</sup> ]	N.D. [<4.7×10 <sup>-4</sup> ]			
Channel of 1F		N.D. [<5.2 × 10 ]	N.D. [<4.7 × 10 ]			
Upper Layer around						
approx. 15km offshore		N.D. $[<5.0 \times 10^{-4}]$	N.D. $[<5.0 \times 10^{-4}]$			
of 1F	1/18					
Upper Layer around	17 10					
approx. 15km offshore		N.D. $[<5.4 \times 10^{-4}]$	N.D. $[<4.9 \times 10^{-4}]$			
of 2F						

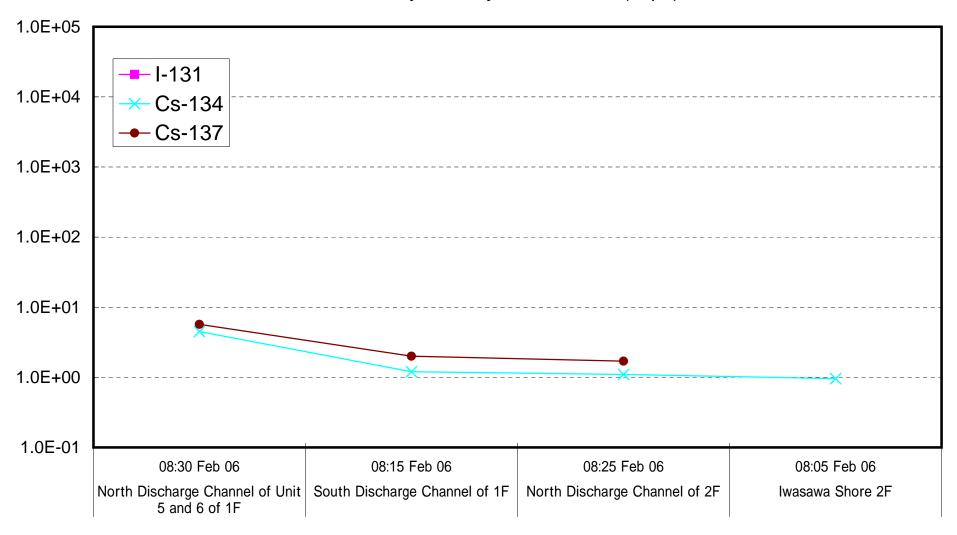
The value inside [ ] means detection limit.

#### 4. Evaluation:

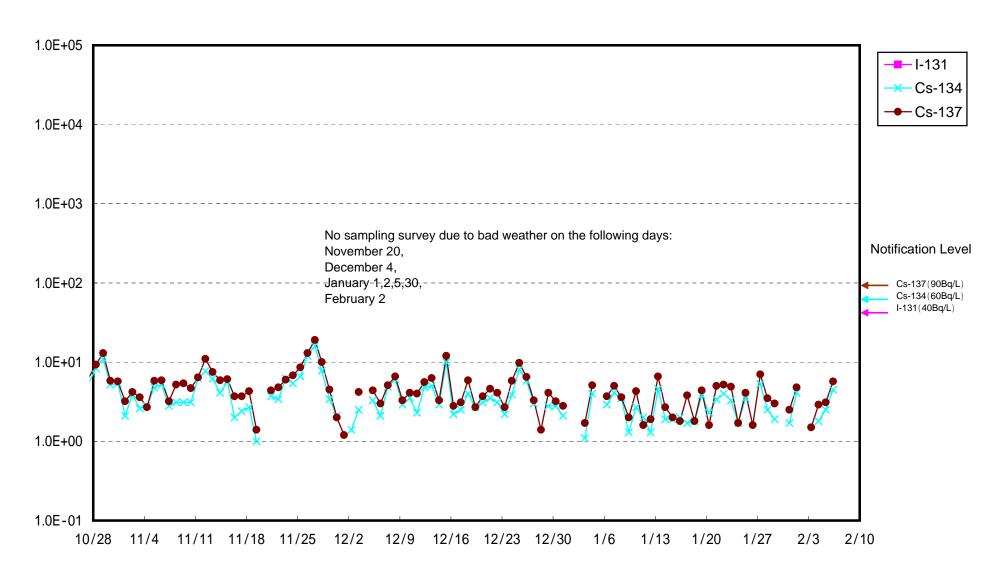
Pu-238, Pu-239, Pu-240 were not detected in the sample collected this time

End

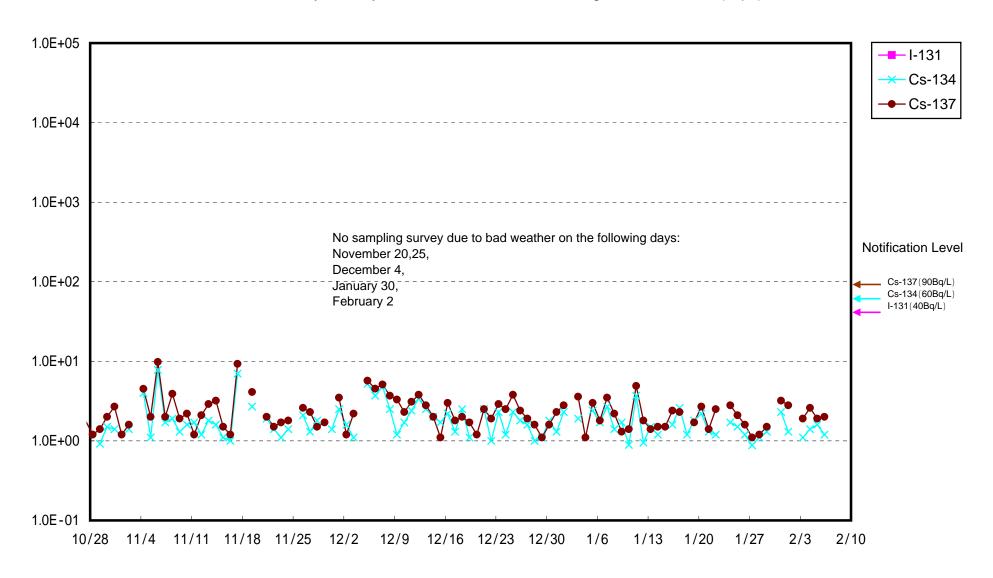
# Radioactivity Density of Seawater (Bq/L)



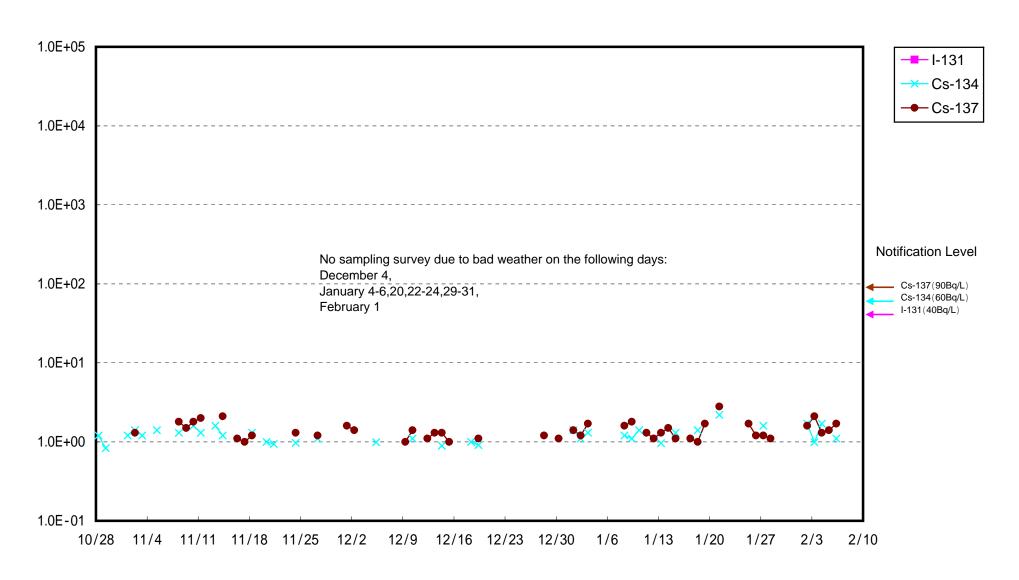
## Radioactivity Density of Seawater at North of 1F5-6 Discharge Channel (Bq/L)



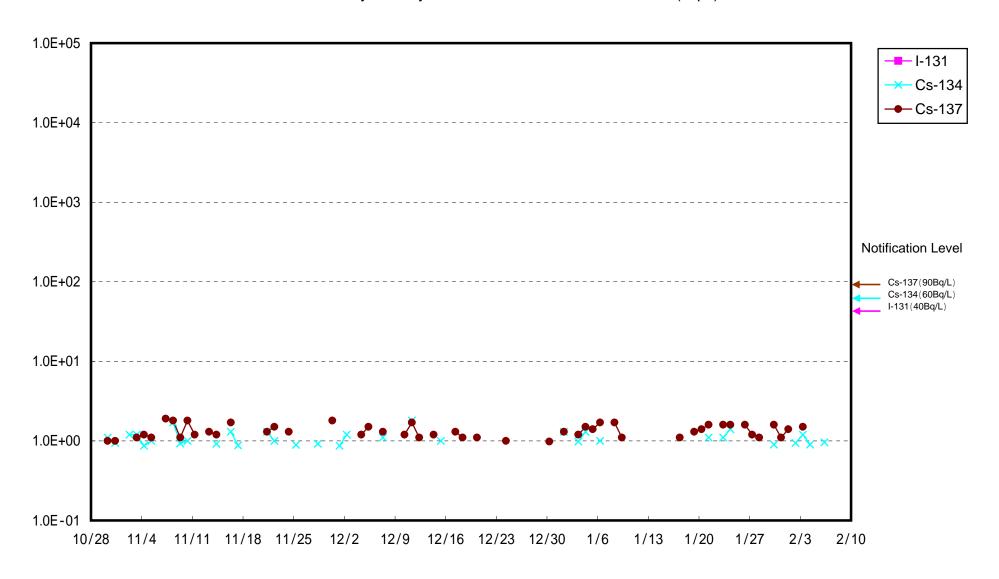
## Radioactivity Density of Seawater at South Discharge Channel of 1F (Bq/L)



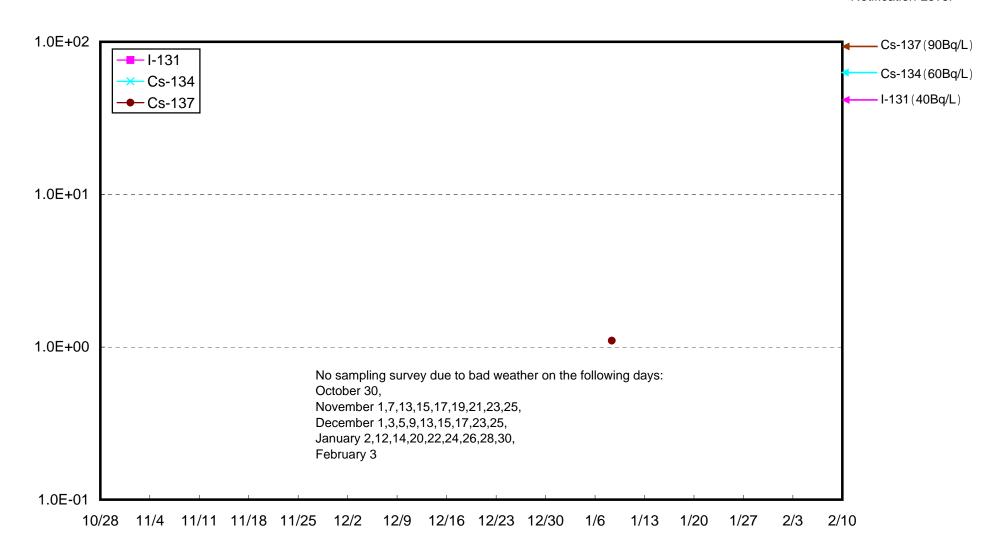
## Radioactivity Density of Seawater at North Discharge Channel of 2F (Bq/L)



# Radioactivity Density of Seawater at Iwasawa Shore 2F (Bq/L)

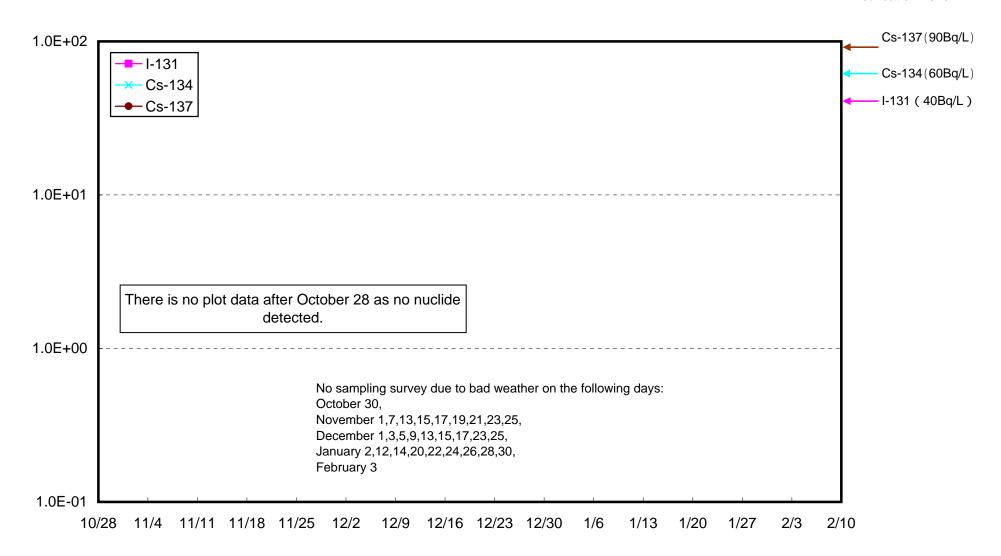


Notification Level



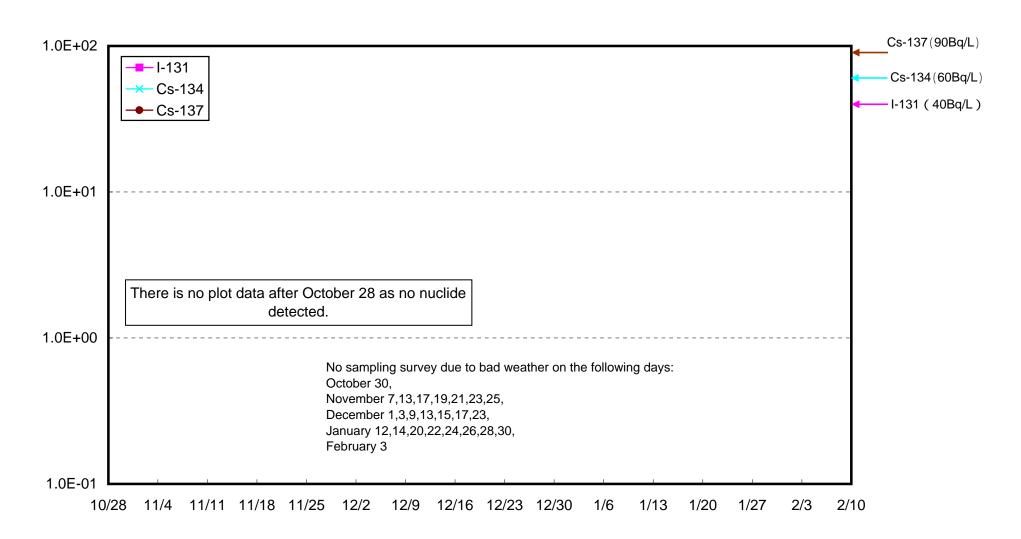
Radioactivity Density of Seawater (lower layer) around approx. 15 km offshore of Ukedo river (Bq/L)

**Notification Level** 



Radioactivity Density of Seawater (upper layer) around approx. 15 km offshore of Fukushima Daiichi NPS
(Bq/L)

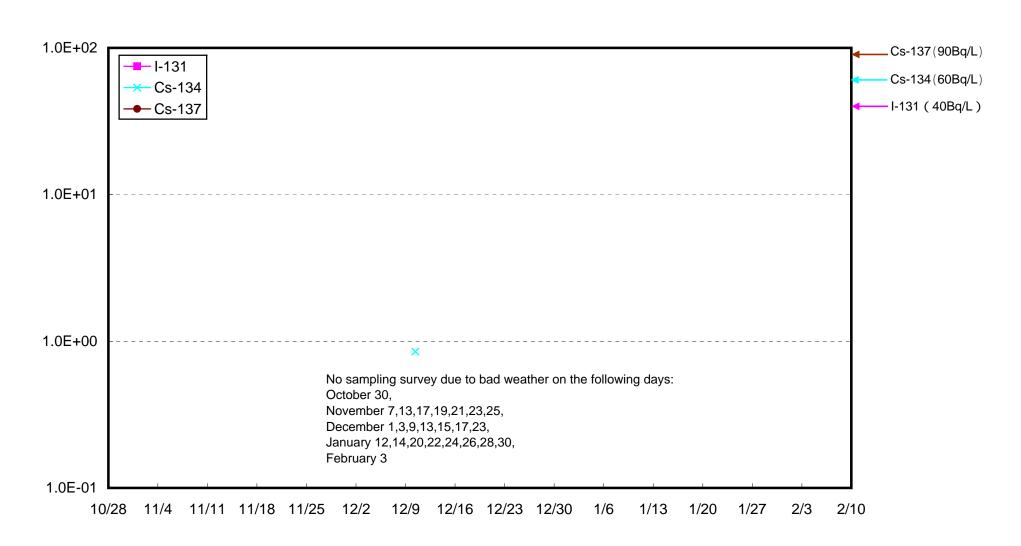
Notification Level



Radioactivity Density of Seawater (lower layer) around approx. 15 km offshore of Fukushima Daiichi NPS

(Bq/L)

Notification Level



Radioactivity Density of Seawater (upper layer) around approx. 15 km offshore of Fukushima Daini NPS (Bq/L) Notification Level Cs-137 1.0E+02 (90Bq/L) - I-131 Cs-134 (60Bq/L) Cs-134 I-131 -Cs-137 (40Bq/L) 1.0E+01 There is no plot data after October 28 as no nuclide detected. 1.0E+00 No sampling survey due to bad weather on the following days: October 30, November 7,13,17,19,21,23,25, December 1,3,9,13,15,17,23, January 12,20,22,24,26,28,30 1.0E-01

12/16 12/23 12/30

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