Reference

#### Radioactivity Density of Seawater in the port of Fukushima Daiichi NPS<1/3>

(Data summarized on March 7)

Place of Sampling	Shallow Draft Quay of 1F			Inside north water intake canal of 1F's Units 1-4				Screen of 1F's Unit 1 (outside the silt fence)		Screen of 1F's Unit 1 (inside the silt fence)		Density limit by the announcement of	
Time of Sampling	Mar 06, 2 06:53 a		N/A		Mar 06, 2012 06:56 am		N/A		Mar 06, 2012 07:02 am		Mar 06, 2012 07:03 am		Reactor Regulation (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	-	-	-	ND	-	ND	-	40
Cs-134 (about 2 years)	ND	-	-	-	ND	-	-	-	ND	-	ND	-	60
Cs-137 (about 30 years)	ND	-	-	-	ND	-	-	-	28	0.31	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. 11Bq/L, Cs-134: approx. 22Bq/L, Cs-137: approx. 27Bq/L

Reference

#### Radioactivity Density of Seawater in the port of Fukushima Daiichi NPS<2/3>

(Data summarized on March 7)

Place of Sampling	Screen of 1F' (outside the si		Screen of 1F's Unit 2 (inside the silt fence)		Screen of 1F's Unit 3 (outside the silt fence)		Screen of 1F's Unit 3 (inside the silt fence)		Screen of 1F's Unit 4 (outside the silt fence)		Screen of 1F's Unit (inside the silt fence		Density limit by the announcement of
Time of Sampling	Mar 06, 2 07:05 a		Mar 06, 2 07:07 a		Mar 06, 2 07:10 a		Mar 06, 2 07:12 a		Mar 06, 2 07:15 a		Mar 06, 2 07:17 a		Reactor Regulation (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	-	ND	-	ND	-	ND	-	ND	-	40
Cs-134 (about 2 years)	22	0.37	68	1.1	ND	-	170	2.8	35	0.58	42	0.70	60
Cs-137 (about 30 years)	ND	-	80	0.89	26	0.29	240	2.7	61	0.68	65	0.72	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. 16Bq/L, Cs-134: approx. 20Bq/L, Cs-137: approx. 23Bq/L

Reference

#### Radioactivity Density of Seawater in the port of Fukushima Daiichi NPS < 3/3 >

(Data summarized on March 7)

Place of Sampling	Inside the sout Units 1-4 Wate Canal	er Intake	Port Entrance	e of 1F	In front of the intake canal of 1								Density limit by the announcement of Reactor
Time of Sampling	Mar 06, 2 07:22 a		N/A		Mar 06, 2 09:00 a								Regulation (Bq/L) (the density limit in the water outside of
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 ( / )	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. 11Bq/L, Cs-134: approx. 22Bq/L, Cs-137: approx. 27Bq/L

### Result of Pu nuclide analysis in the seawater Fukushima Daiichi Nuclear Power Station

- 1. Place of sampling: Inside north water intake canal Units 1-4 Fukushima Daiichi Nuclear Power Station
- 2. Analysis Institute: Japan Chemical Analysis Center
- 3. Result:

(Unit: Bq/L)

Place of sampling	Date	Pu-238	Pu-239 + Pu-240		
Inside north water intake	Eab 12	N.D. [<4.6×10 <sup>-4</sup> ]	N.D. [<4.6×10 <sup>-4</sup> ]		
canal Units 1-4	Feb. 13	N.D. [<4.0x10 ]			

[ ] shows lower detection limit

#### 4. Evaluation:

No Pu-238 and Pu-239 + Pu-240 were detected from the sample for this analysis.

End

### Nuclide Analysis Results of Radioactive Materials in Seawater in the intake of 1F's Units 1-4

#### (Data summarized on March 7)

Place of Sampling	Inside north water intake canal of	Density limit by the announcemen of Reactor Regulation (Bq/L) (the density limit in the water outside of surrounding monitored areas in		
Date of sampling	Feb 13, 2012			
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	the section 6 of the appendix 2)		
I-131 (about 8 days)	ND	-	40	
Cs-134 (about 2 years)	ND	-	60	
Cs-137 (about 30 years)	46	0.51	90	
H-3 (about 12 years)	320	0.01	60,000	
all α emitters	ND	-	-	
all β emitters	170	-	-	
Sr-89 (about 51 days)	12	0.04	300	
Sr-90 (about 29 years)	67	2.2	30	

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

#### (Evaluation)

H-3, all β emitters, Sr-89 and Sr-90 were detected. We consider this is due to the accident.

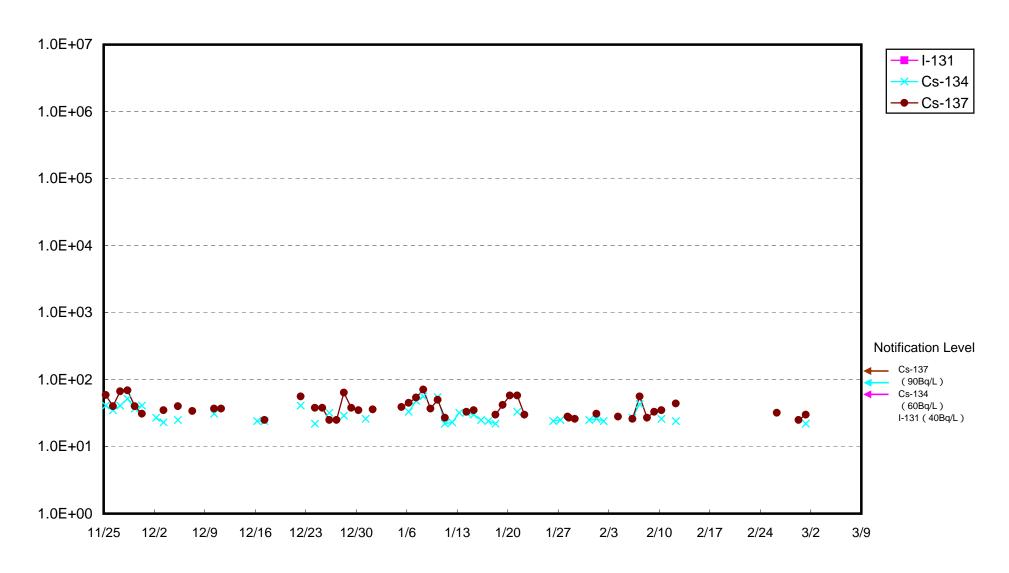
<sup>\*</sup> In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with

<sup>\*</sup> The data of I-131, Cs-134 and Cs-137 were announced on February 14.

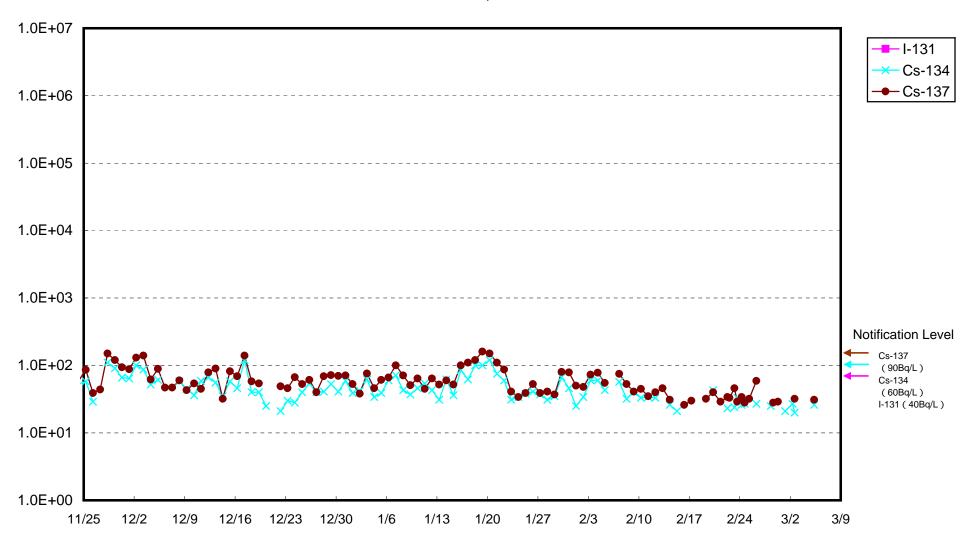
<sup>\*</sup> In the case the measurement is under the detection threshold, "ND" is marked. I-131: approx. 10Bg/L , Cs-134: approx. 20Bg/L , All α: approx. 4Bg/L ,

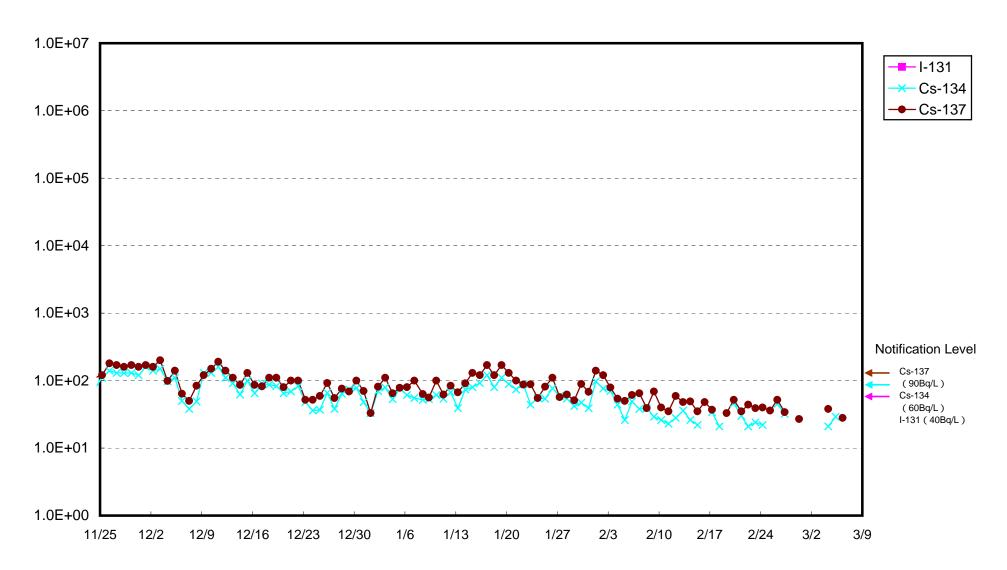
<sup>\*</sup> Nuclide analysis wad conducted by Japan Chemical Analysis Center.

# Radioactivity Density of Seawater infront of Shallow Draft Quay of 1F (Bq/L)

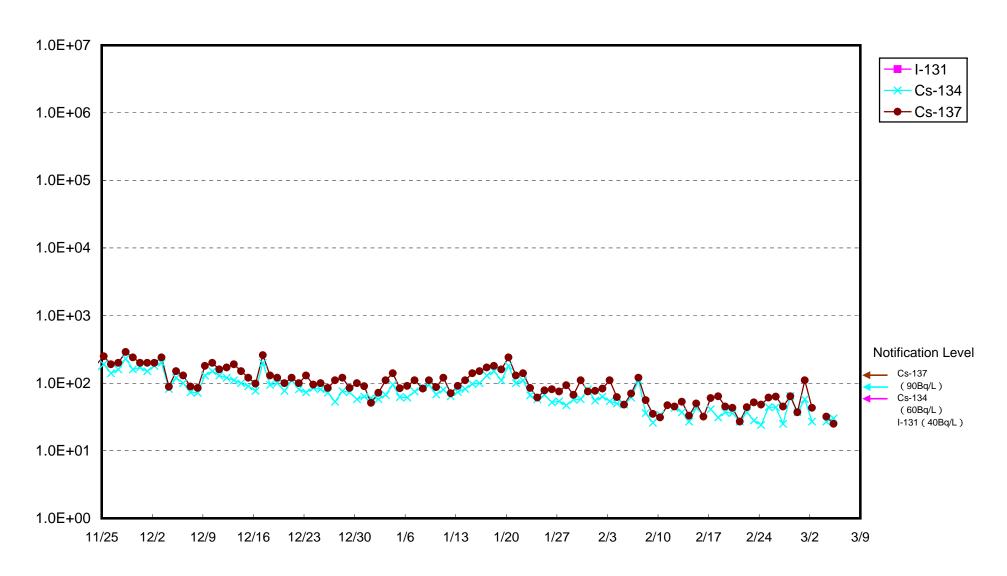


Radioactivity Density of Seawater at the North of Units 1 to 4 Water Intake of Fukushima Daiichi NPS (Bq/L)





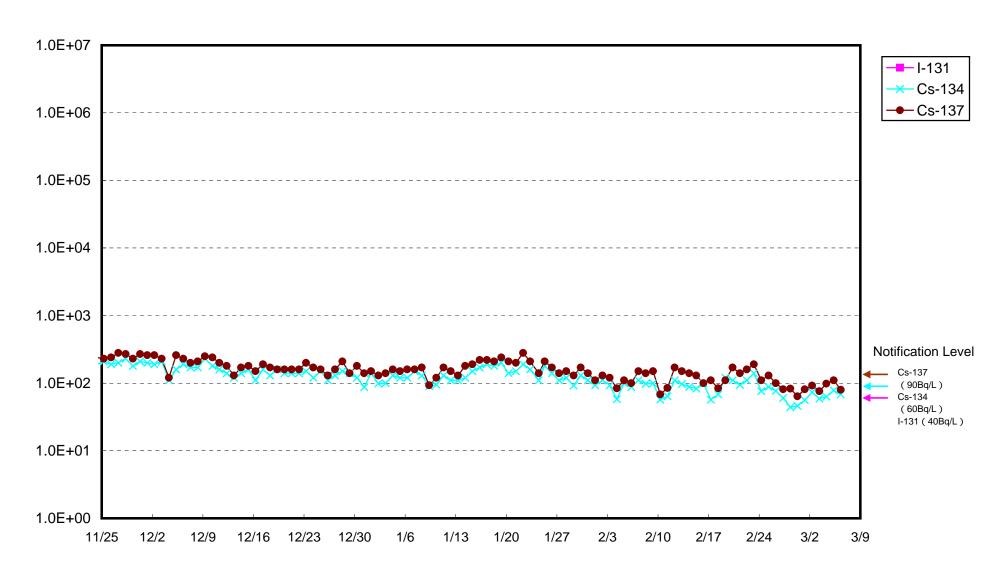
# Radioactivity Density of Seawater at Screen of 1F's Unit 1 (inside the silt fence) (Bq/L)



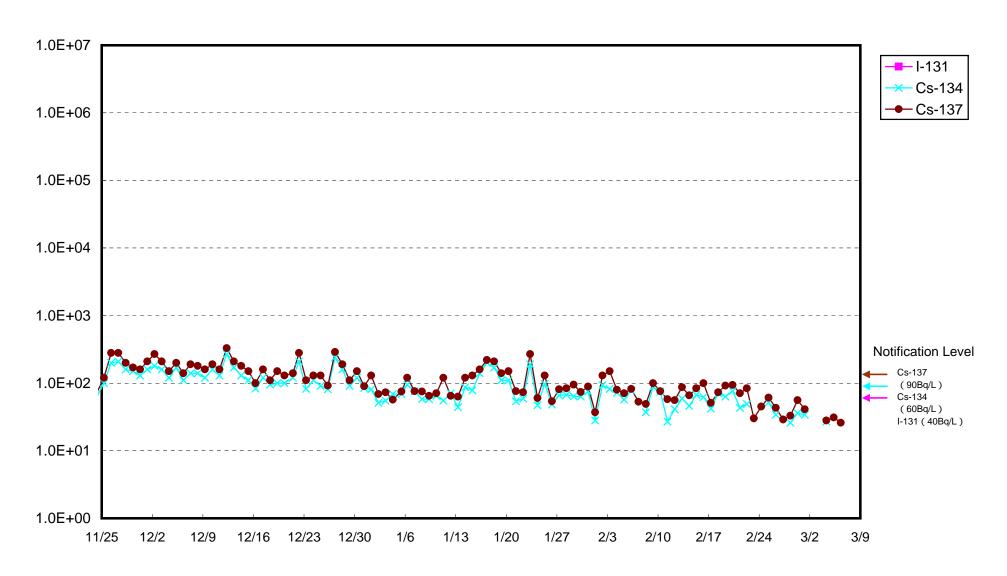
# Radioactivity Density of Seawater at Screen of 1F's Unit 2 (outside the silt fence) Bq/L)



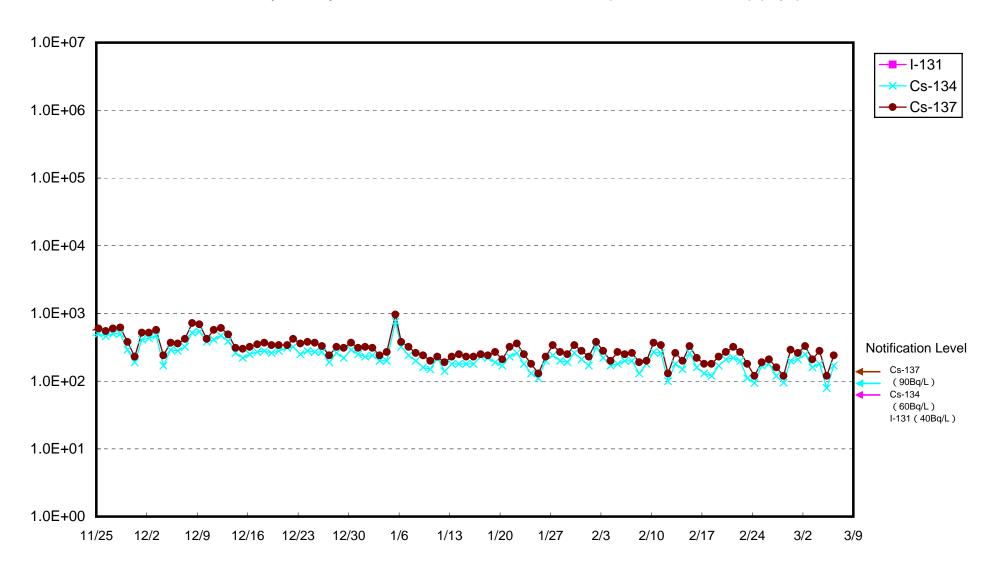
# Radioactivity Density of Seawater at Screen of 1F's Unit 2 (inside the silt fence) (Bq/L)



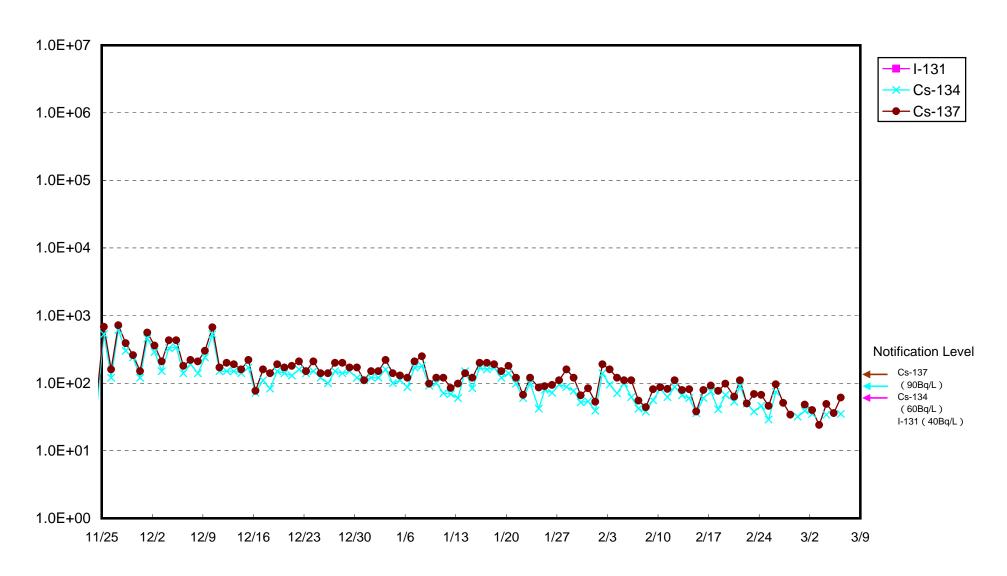
## Radioactivity Density of Seawater at Screen of 1F's Unit 3 (outside the silt fence) (Bq/L)

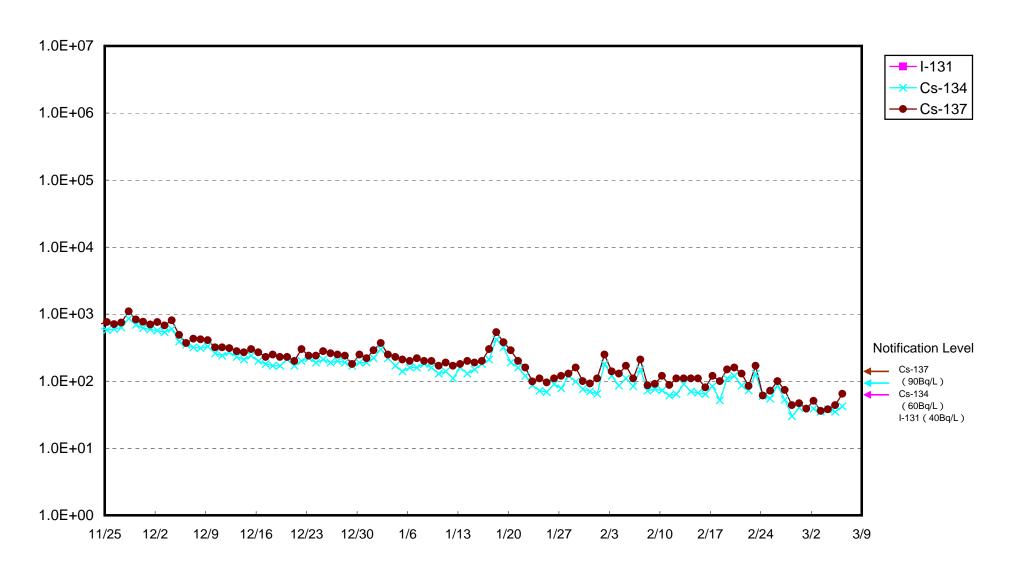


# Radioactivity Density of Seawater at Screen of 1F's Unit 3 (inside the silt fence) (Bq/L)



## Radioactivity Density of Seawater at Screen of 1F's Unit 4 (outside the silt fence) (Bq/L)





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

