

Nuclides Analysis Result of the Sub-drain of Fukushima Daiichi NPS

Reference

(Data summarized on October 21)

Place of Sampling	Fukushima Daiichi NPS Unit 1 Sub-drain	Fukushima Daiichi NPS Unit 2 Sub-drain	Fukushima Daiichi NPS Unit 3 Sub-drain	Fukushima Daiichi NPS Unit 4 Sub-drain	Fukushima Daiichi NPS Unit 5 Sub-drain	Fukushima Daiichi NPS Unit 6 Sub-drain	Deep Well at Fukushima Daiichi NPS
Time of Sampling	Oct 20, 2014 7:27 AM	Oct 20, 2014 7:24 AM	Oct 20, 2014 7:20 AM	Oct 20, 2014 7:17 AM	N/A	N/A	N/A
Detected Nuclides (Half-life)	Density of Sample (Bq/cm ³)						
I-131 (Approx. 8 days)	ND	ND	ND	ND	-	-	-
Cs-134 (Approx. 2 years)	5.3E-02	3.0E-02	ND	2.3E-02	-	-	-
Cs-137 (Approx. 30 years)	1.9E-01	9.4E-02	2.7E-02	8.0E-02	-	-	-

* 0.0E-0 is the same as 0.0 x 10⁰

* Data of other nuclides is under evaluation.

* "ND" indicates that the measurement result is below the detection limit.

I-131: Approx. 1E-2Bq/cm³, Cs-134: Approx. 1E-2Bq/cm³

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

Result of Pu Nuclide Analysis of Sub-Drain at Fukushima Daiichi Nuclear Power Station

Data summarized on October 21, 2014)

1. Measurement Result:

(Unit: Bq/cm³)

Place of Sampling	Date	Pu-238	Pu-239+Pu-240
Unit 2 Sub-Drain	May 9, 2014	N.D. [5.9×10^{-7}]	N.D. [5.0×10^{-7}]
Unit 3 Sub-Drain	May 9, 2014	N.D. [5.4×10^{-7}]	N.D. [4.6×10^{-7}]

[] shows below the detection limit.

2. Analytical Institution

KAKEN Inc.

3. Evaluation:

Pu-238 and Pu-239+Pu-240 were not detected in the sample collected this time.

End

Nuclides Analysis Result of Radioactive Materials of Sub-Drain

(Data summarized on October 21)

Place of Sampling	Unit 2 Sub-Drain at Fukushima Daiichi NPS	Unit 4 Sub-Drain at Fukushima Daiichi NPS
Date of Sampling	Jun 13, 2014	Jun 13, 2014
Detected Nuclides (Half-life)	Density of Sample (Bq/cm ³)	
I-131 (Approx. 8 days)	ND	ND
Cs-134 (Approx. 2 years)	1.5E-01	ND
Cs-137 (Approx. 30 years)	4.5E-01	ND
H-3 (approx. 12yrs)	5.8E-02	5.0E-01
All α	ND	ND
All β	6.2E-01	1.6E-02
Sr-89 (Approx. 51 days)	ND	ND
Sr-90 (Approx. 29 years)	6.1E-02	2.3E-04

* 0.0E±0 is the same as 0.0 x 10^{±0}

* Nuclide analysis results of I-131, Cs-134, Cs-137 were announced on June 14, 2014.

* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

I-131: Approx. 1E-2Bq/cm³, Cs-134: Approx. 1E-2Bq/cm³, Cs-137: Approx. 2E-2Bq/cm³,

Gross β : Approx. 2E-3Bq/cm³, Sr-89: Approx. 2E-4Bq/cm³.

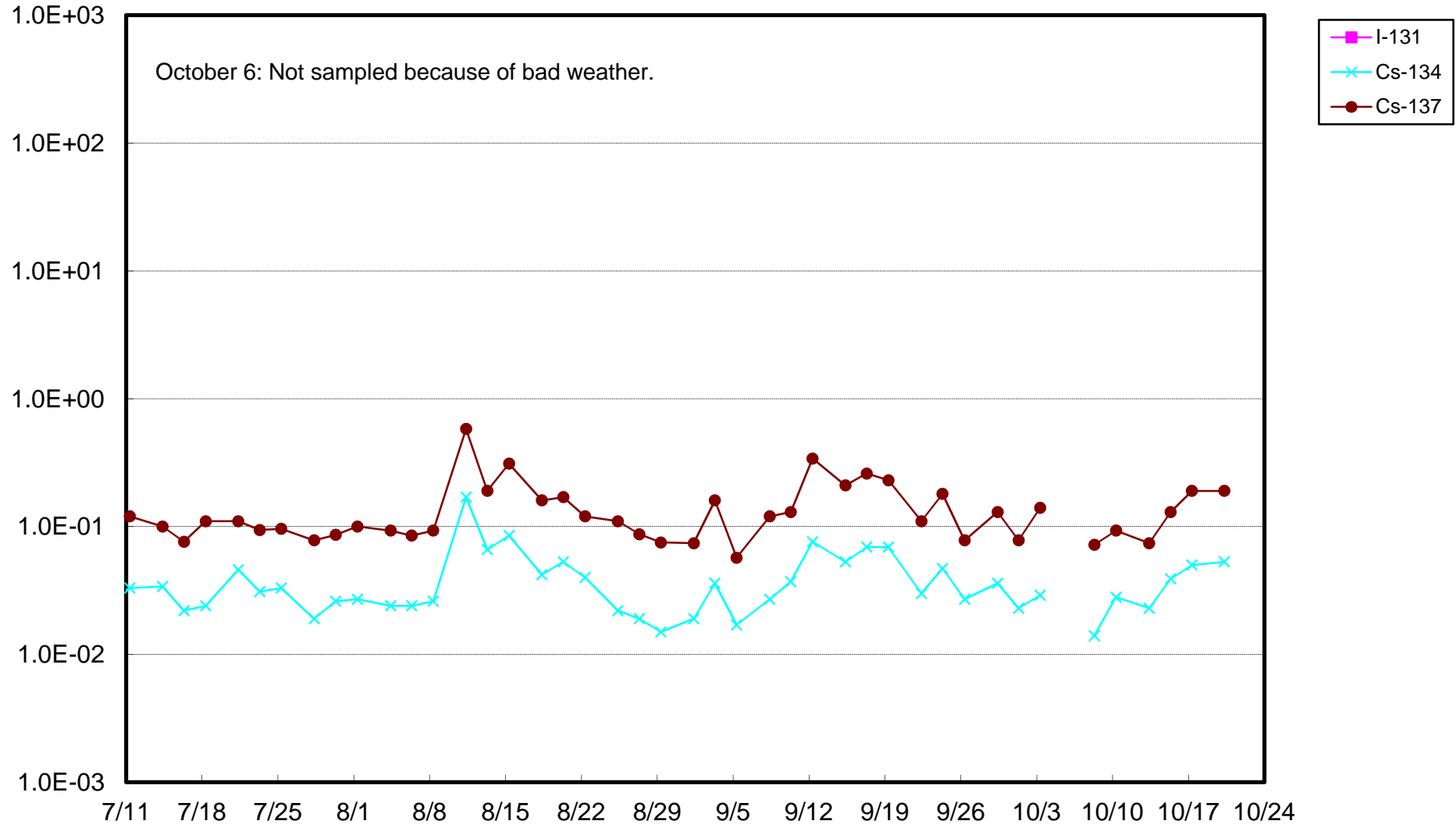
As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

* Sr-89 and Sr-90 were analyzed by KAKEN Inc.

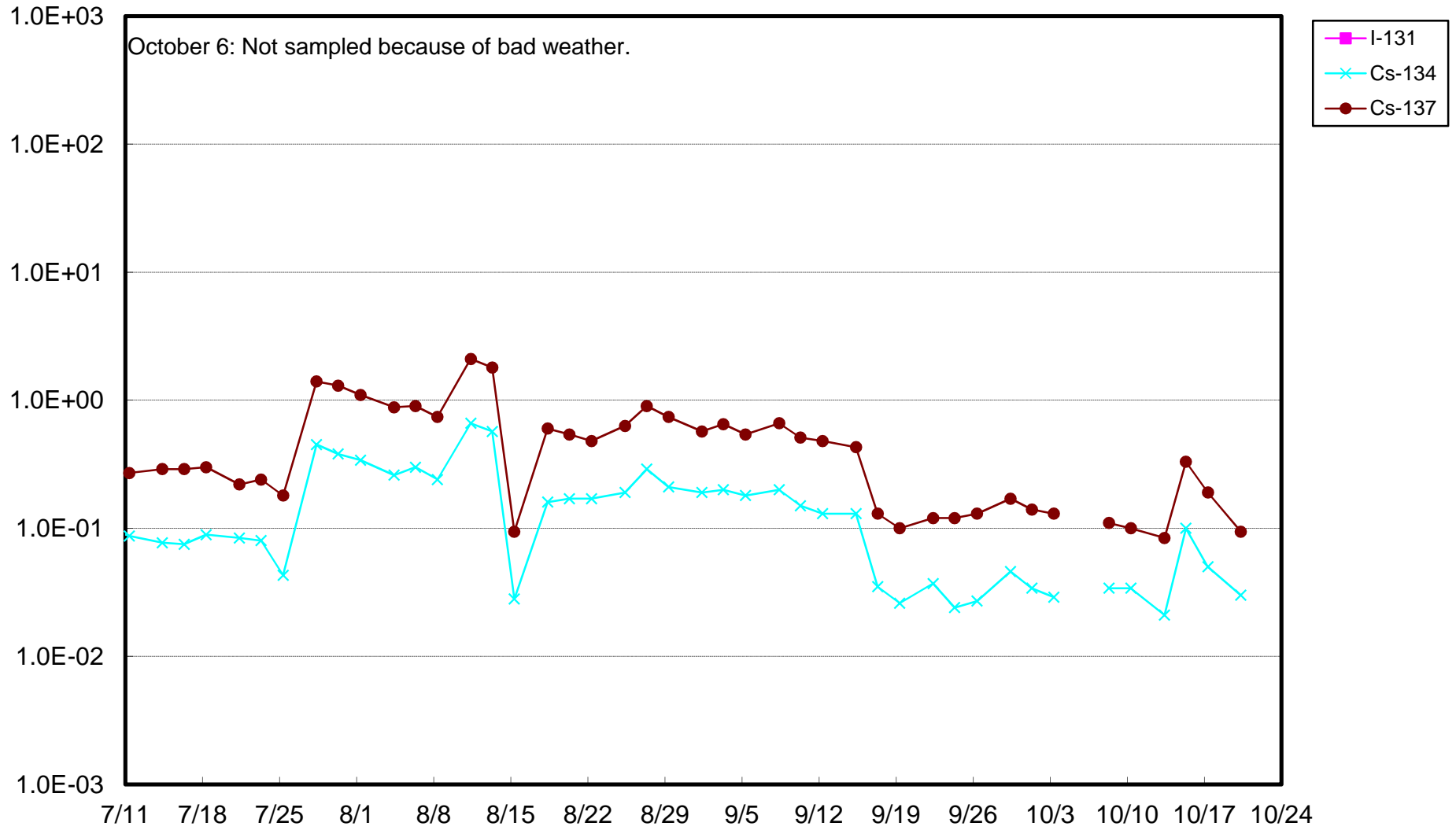
(Evaluation)

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

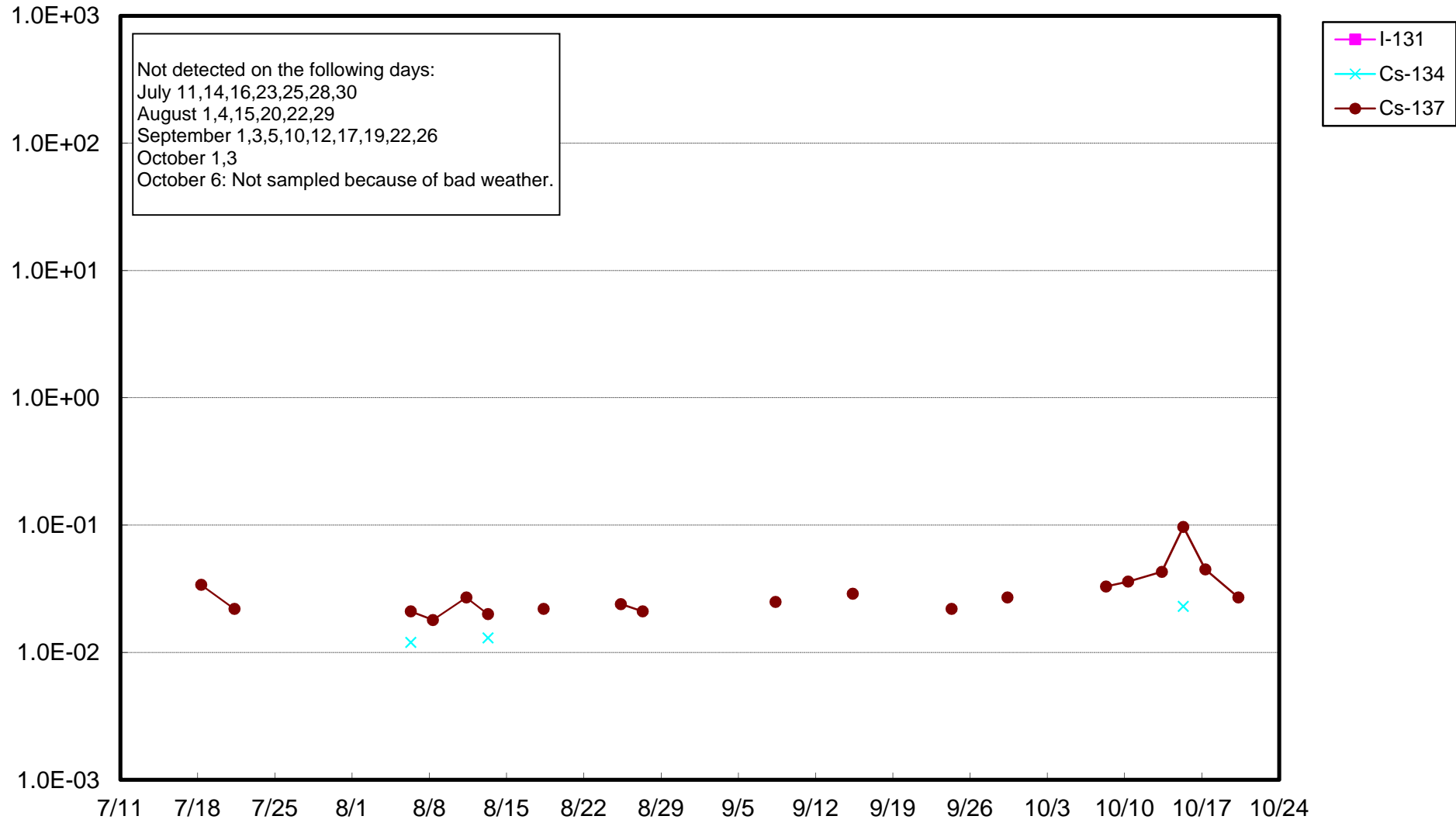
Fukushima Daiichi Nuclear Power Station: Radioactivity Density of Unit 1 Sub-drain (Bq/cm³)



Fukushima Daiichi Nuclear Power Station: Radioactivity Density of Unit 2 Sub-drain (Bq/cm³)



Fukushima Daiichi Nuclear Power Station: Radioactivity Density of Unit 3 Sub-drain (Bq/cm³)



Fukushima Daiichi Nuclear Power Station: Radioactivity Density of Unit 4 Sub-drain (Bq/cm³)

