

Measurement result of radioactivity concentration of water treatment facilities

Unit: (Bq/cm³)

sampling point	Highly contaminated water in the underground of the centralized RW (accumulated water)	Water treated by Cesium absorption facility	Highly contaminated water in the underground of HTI (accumulated water)	Water treated by second Cesium absorption facility A line	Water treated by second Cesium absorption facility B line	Water before entering into the desalination facility		Water treated by the desalination facility		Water entering into the evaporative concentration apparatus		Water treated by the evaporative concentration apparatus		Concentrated waste water from the evaporative concentration apparatus		
	Date of sampling	06:30 Jan 24 2012	16:40 Jan 24 2012	06:20 Jan 24 2012	06:44 Jan 24 2012	06:44 Jan 24 2012	17:30 Dec 20 2011	07:10 Jan 24 2012	17:40 Dec 20 2011	16:30 Jan 24 2012	06:10 Dec 20 2011	06:30 Jan 26 2012	06:30 Dec 20 2011	Jan. 2012 (Not sampled)	06:20 Dec 20 2011	Jan. 2012 (Not sampled)
nuclide	I-131 (approx8days)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-
	Cs-134 (approx2years)	2.1E+05	3.5E+00	1.9E+05	ND	8.8E-01	1.4E+01	2.6E+01	3.1E-02	ND	1.2E+01	6.3E+00	ND	-	1.7E+01	-
	Cs-137 (approx30years)	2.8E+05	4.6E+00	2.5E+05	6.1E-01	5.5E-01	1.7E+01	3.6E+01	4.6E-02	ND	1.7E+01	1.1E+01	ND	-	2.5E+01	-
	Mn-54 (approx.310days)	ND	5.8E+00	ND	7.7E-01	1.2E+00	1.0E+01	9.6E+00	3.3E-02	ND	3.1E+01	3.1E+01	ND	-	1.6E+01	-
	Co-58(approx.71days)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-
	Co-60 (approx.5yrs)	ND	1.0E+01	ND	ND	ND	3.7E+00	4.7E+00	ND	ND	7.9E+00	1.0E+01	ND	-	2.8E+00	-
	Ru-103 (approx40days)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-
	Ru-106 (approx370days)	ND	4.4E+00	ND	ND	3.4E+00	ND	2.2E+01	ND	ND	ND	3.8E+01	ND	-	ND	-
	Sb-124 (approx60days)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-
	Sb-125 (approx.3yrs)	ND	5.0E+01	ND	5.8E+01	5.7E+01	5.0E+01	7.0E+01	ND	ND	1.1E+02	1.1E+02	ND	-	2.5E+02	-
	Ba-140 (approx.13days)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-
La-140 (approx.40hrs)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	
H-3 (approx12Years)	-	-	-	-	-	2.3E+03	-	2.6E+03	-	4.3E+03	-	3.5E+03	-	-	-	
all β radioactivity	-	-	-	-	-	2.2E+05	-	1.9E+01	-	2.7E+05	-	8.9E+00	-	4.7E+05	-	

. E+ has equivalent meaning with . ×10²

ND indicates the measured value was below the detection limit

periods in () indicates half period

nuclide of sampled Dec 20, 2011 of ~ is already pressed Jan. 5, 2012

Due to stop of the evaporative concentration apparatus, and are not sampled