## Nuclides Analysis Result of the Sub-drain Water in the Surroundings of the Central Radioactive Waste Treatment Facility

## I-131(Bq/cm<sup>3</sup>)

Sampling	Nov 23 Nov 24 Nov 25 Nov 26 Nov 27 Nov 28 Nov 29 Nov 30 Dec 01 Dec 02 Dec 03 Dec 04 Dec 05 Dec 06 Dec 07 Dec 08																		
Location	Nov 23	Nov 24	Nov 25	Nov 26	Nov 27	Nov 28	Nov 29	Nov 30	Dec 01	Dec 02	Dec 03	Dec 04	Dec 05	Dec 06	Dec 07	Dec 08			
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
⑤	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
6	-	-	ND	-	-	-	-	-	-	ND	-	-	-	-	-	-			
7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			

## Cs-134(Bq/cm<sup>3</sup>)

Sampling																			
Location	Nov 23	Nov 24	Nov 25	Nov 26	Nov 27	Nov 28	Nov 29	Nov 30	Dec 01	Dec 02	Dec 03	Dec 04	Dec 05	Dec 06	Dec 07	Dec 08			
1	ND																		
2	ND																		
3	ND																		
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
⑤	ND																		
6	-	-	ND	-	-	-	-	-	-	ND	-	-	-	-	-	-			
7	0.047	0.039	0.051	0.045	0.041	0.047	0.051	0.056	0.052	0.057	0.056	0.052	0.058	0.064	0.059	0.055			
8	ND	ND	0.013	0.02	0.015	0.018	ND												
9	ND																		

## Cs-137(Bq/cm<sup>3</sup>)

Sampling																			
Location	Nov 23	Nov 24	Nov 25	Nov 26	Nov 27	Nov 28	Nov 29	Nov 30	Dec 01	Dec 02	Dec 03	Dec 04	Dec 05	Dec 06	Dec 07	Dec 08			
1	ND																		
2	ND																		
3	ND																		
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
⑤	ND	ND	0.019	0.027	0.017	0.02	ND	0.03	ND	ND	0.017	ND	0.021	ND	ND	ND			
6	-	-	ND	-	-	-	-	-	-	ND	-	-	-	-	-	-			
7	0.1	0.12	0.099	0.13	0.1	0.11	0.11	0.11	0.12	0.14	0.12	0.12	0.13	0.12	0.14	0.11			
8	0.023	0.032	0.037	0.058	0.029	0.034	0.027	0.025	0.024	0.024	0.032	0.035	0.028	0.036	0.031	0.029			
9	ND																		

- \* Hyphen "-" indicates that neither sampling nor measurement was implemented.
- \* 6 was selected as a sampling location in the upstream of groundwater (sampling done once a week starting from April 29, 2011) since it became unable to do sampling at 4.
- \* Sampling at ① (located in the downstream of the groundwater) has been done since May 26, 2011.
- \* Samping at ® since May 30, 2011
- \* Sampling at 9 has been done since August 2, 2011
- \* "ND" indicates that the measurement result is below the detection limit.

I-131: Approx. 0.008Bq/cm<sup>3</sup>, Cs-134: Approx. 0.01Bq/cm<sup>3</sup>, Cs-137: Approx. 0.02Bq/cm<sup>3</sup> (December 8, 2013)

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

- <Place of Sampling>
- ① Southeast of Unit 4 Turbine Building
- 2 Northeast of the Process Main Building
- 3 Southeast of the Process Main Building
- Southwest of the Process Main Building
- 5 South Part of the Miscellaneous Solid Waste Volume Reduction Treatment Building
- 6 Southwest Part of the On-site Bunker Building
- (7) West Side of the Incineration Workshop Building
- North Part of the Miscellaneous Solid Waste Volume Reduction Treatment Building
- 9 Southeast Part of the On-site Bunker Building