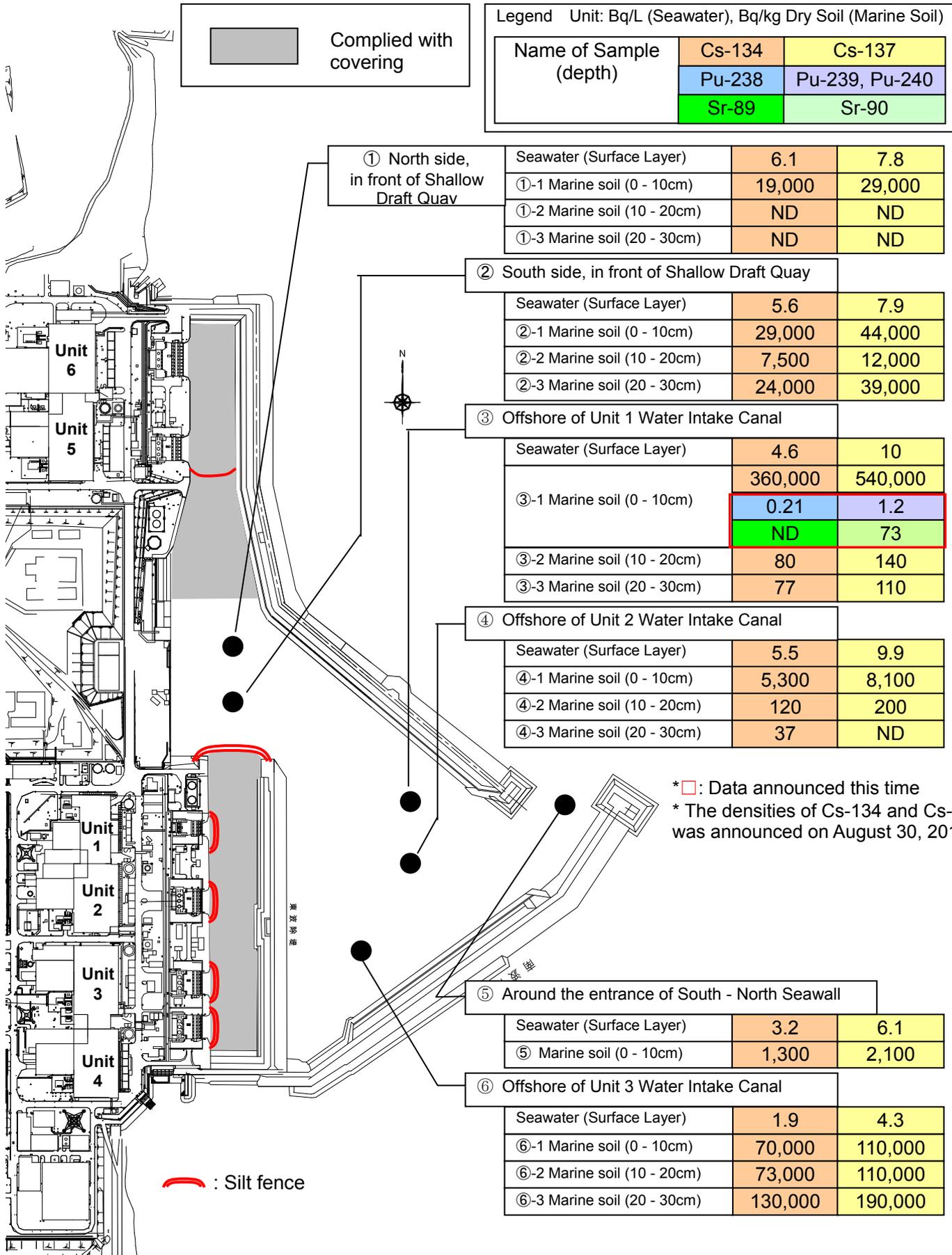


Nuclide Analysis Results of Marine Soil inside the Port Entrance of Fukushima Daiichi Nuclear Power Plant (As of July 23, 2012)



Nuclide Analysis Results of Marine Soil - Inside the Port Entrance of Fukushima Daiichi Nuclear Power Plant

Place No.	Place of Sampling	Date of Sampling	Dry Soil Rate (%)	Radioactivity Density(Bq/kg·Dry Soil)		
				I-131 [Approx. 8days]	Cs-134 [Approx. 2years]	Cs-137 [Approx. 30 years]
①-1	North side, in front of Shallow Draft Quay	Jul 23, 2012 10:10 AM	48.9	ND	19,000	29,000
①-2			69.3	ND	ND	ND
①-3			82.7	ND	ND	ND
②-1	South side, in front of Shallow Draft Quay	Jul 23, 2012 10:39 AM	65.2	ND	29,000	44,000
②-2			73.4	ND	7,500	12,000
②-3			74.1	ND	24,000	39,000
③-1	Offshore of Unit 1 Water Intake Canal	Jul 23, 2012 10:56 AM	44.7	ND	360,000	540,000
③-2			77.6	ND	80	140
③-3			76.9	ND	77	110
④-1	Offshore of Unit 2 Water Intake Canal	Jul 23, 2012 11:08 AM	75.3	ND	5,300	8,100
④-2			81.0	ND	120	200
④-3			77.9	ND	37	ND
⑤	Around the entrance of South - North Seawall	Jul 23, 2012 11:37 AM	76.2	ND	1,300	2,100
⑥-1	Offshore of Unit 3 Water Intake Canal	Jul 23, 2012 11:20 AM	42.6	ND	70,000	110,000
⑥-2			69.6	ND	73,000	110,000
⑥-3			72.7	ND	130,000	190,000

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

(I-131: Approx. 1,500Bq/kg·Dry Soil, Cs-134: Approx.42Bq/kg·Dry Soil, Cs-137: Approx.52Bq/kg·Dry Soil)

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

* The half-life of each nuclide is provided in parentheses.

* The densities of I-131, Cs-134 and Cs-137 were announced on August 30.

Place No.	Place of Sampling	Date of Sampling	Radioactivity Density(Bq/kg·Dry Soil)		
			Pu-238	Pu-239+ Pu-240	
③-1	Offshore of Unit 1 Water Intake Canal	Jul 23, 2012 10:56 AM	0.21	1.2	-
Range of past measurement values in the sea area near Fukushima Daiichi NPS and Fukushima Daini NPS (FY1999 - FY2008) Pu-239, 240 0.17 - 0.56 Bq/kg·Dry Soil Source: "2009 Report on the Result of Radioactivity Measurement around Nuclear Power Plant" (Fukushima Nuclear Power Station Coordinating Committee for Safety Technology)					
Range of Past Measurement Values in Japan (FY2006 - FY2010) Pu-238: ND~0.06 Bq/kg·Dry Soil Source: "Environmental Radiation Database" (Ministry of Education, Culture, Sports, Science and Technology)					

<Evaluation>

The density of Pu-238 and Pu-239+240 are supposed to originate from the accident this time for the following reason.

- Pu-238 which had not been detected at the offshore of the power plant was detected this time.

- The densities of Pu-239+240 is higher than that of the range of past measurement values in the sea area near 1F and 2F.

Place No.	Place of Sampling	Date of Sampling	Radioactivity Density(Bq/kg·Dry Soil)		
			Sr-89	Sr-90	
③-1	Offshore of Unit 1 Water Intake Canal	Jul 23, 2012 10:56 AM	ND	73	—
Range of past measurement values in the sea area near Fukushima Daiichi NPS and Fukushima Daini NPS (FY1999 - FY2008) Sr-90: ND~0.17 Bq/kg·Dry Soil Source: "2009 Report on the Result of Radioactivity Measurement around Nuclear Power Plant" (Fukushima Nuclear Power Station Coordinating Committee for Safety Technology)					

<Evaluation>

The density of Sr-90 are higher than those of the range of past measurement values in the sea area near 1F and 2F. Therefore, there is a possibility that the higher densities originate from the accident this time.

* □: Data announced this time