Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (1/4) Underground Water Obtained at Bank Protection

Unit: Ba/l

		Underground water observation hole No.0-1	•	er observation hole o.1	Underground water observation hole No.1-2	Underground water observation hole No.1-3	Underground water observation hole No.1-5	Underground water observation hole No.1-8	Groundwater pumped up from the well point	Underground water observation hole No.2	Underground water observation hole No.2-1	Underground water observation hole No.3
	Date of sampling	Aug 29, 2013	Aug 29, 2013	Aug 30, 2013	Aug 29, 2013	Aug 29, 2013	Aug 29, 2013	Tible No. 1-6	the well point	Hole No.2	Hole No.2-1	Tible No.5
	Time of sampling	9:50 AM	10:15 AM	11:25 AM	11:42 AM	10:38 AM	11:13 AM			/		/
С	s-134 (Approx. 2 years)	1.4	13	1.0	120	1.3	62					
C	s-137 (Approx.30 years)	3.0	31	2.1	260	3.3	130					
	Ru-106 (Approx. 370 days)	ND	17	17	ND	4.6	ND					
The other y												
	ΑΙΙ β	86	1,400	1,700	680,000	33,000	2,600					
	H-3 (Approx. 12 years)	45,000	390,000	390,000	380,000	230,000	24,000					
S	r-90 (Approx. 29 years)	-	1	-	-	-	-					

^{*} Data announced this time is provided in a thick-frame. The other data was announced on August 30.

^{* &}quot;ND" indicates that the measurement result is below the detection limit, and the detection limit of each nuclide is provided in parentheses.

^{* &}quot;-" indicates that the measurement was out of range.

Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (2/4) Underground Water Obtained at Bank Protection

		Underground water observation hole No.0-1	Underground water observation hole No.0-2*1	Underground water observation hole No.1	Underground water observation hole No.1-2	Underground water observation hole No.1-3*1	Underground water observation hole No.1-5	Underground water observation hole No.1-8	Groundwater pumped up from the well point	Underground water observation hole No.2	Underground water observation hole No.2-1	Underground water observation hole No.3
	Date of sampling	/	Sep 2, 2013	Sep 2, 2013	Sep 2, 2013	Sep 2, 2013	Sep 2, 2013	Sep 2, 2013	Sep 2, 2013	/	/	
	Time of sampling		9:51 AM	10:07 AM	11:56 AM	10:37 AM	11:16 AM	9:37 AM	9:35 AM			
C	s-134 (Approx. 2 years)		ND(0.47)	1.5	140	10	40	30	ND(1.6)			
Cs	s-137 (Approx.30 years)		0.75	3.5	300	24	85	63	ND(1.6)			
	Ru-106 (Approx. 370 days)		ND	11	ND	ND	ND	ND	25			
The other y												
	ΑΙΙ β		ND(24)	1,300	590,000	21,000	2,000	1,100	360,000			
ŀ	H-3 (Approx. 12 years)		Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis			
Sr	-90 (Approx. 29 years)		-	-	-	-	-	-	-	/	/	/

^{*1} Analysis results of the underground observation hole No.0-2, No.1-3 and groundwater pumped up from the well point were previously announced.

^{* &}quot;ND" indicates that the measurement result is below the detection limit, and the detection limit of each nuclide is provided in parentheses.

^{* &}quot;-" indicates that the measurement was out of range.

Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (3/4) Seawater

Unit: Bq/L

	1F, North side of Unit 5,6 discharge channel	1F, In front of Unit 6 water intake channel	1F, In front of shallow draft quay	1F, North side of Unit 1-4 water intake channel	1F, North side of Unit 1-4 water intake channel (north side of East Seawall Break)	1F, Unit 1	1F, Between the water intake channel of Unit 1 and Unit 2 (surface layer)	1F, Between the water intake channel of Unit 1 and Unit 2 (lower layer)	1F, Unit 2 Screen (Inside the Silt Fence)	1F, Between the water intake channel of Unit 2 and Unit 3	1F, Unit 3 Screen (Inside the Silt Fence)
Date of Sampling			/			/			/		
Time of sampling											
Cs-134(Approx. 2 years)			/				/				
Cs-137(Approx.30 years)			/				/				
ΑΙΙ β					/			/			
H-3 (Approx. 12 years)			/				/				
Sr-90 (Approx. 29 years)	/		/	/			/				

	1F, Between the water intake channel of Unit 3 and Unit 4	Screen	1F, Around the south discharge channel	1F, Port entrance	1F, East side in the port	1F, West side in the port	1F, North side in the port	1F, South side in the port	North side of the north breakwater*	East side of the port entrance*	South side of the south breakwater*
Date of Sampling				Aug 28, 2013	Aug 28, 2013	Aug 28, 2013	Aug 28, 2013	Aug 28, 2013	Aug 27, 2013	Aug 27, 2013	Aug 27, 2013
Time of sampling				7:21 AM	7:28 AM	7:38 AM	7:35 AM	7:24 AM	8:14 AM	8:20 AM	8:07 AM
Cs-134(Approx. 2 years)				ND(2.0)	ND(1.1)	ND(1.1)	ND(2.1)	1.1	ND(0.66)	ND(0.84)	ND(0.69)
Cs-137(Approx.30 years)				ND(1.6)	1.9	1.6	1.8	3.4	ND(0.49)	ND(0.69)	ND(0.68)
ΑΙΙ β				ND(17)	ND(17)	ND(17)	ND(17)	ND(17)	ND(17)	ND(17)	ND(17)
H-3 (Approx. 12 years)				4.0	6.6	5.3	7.3	3.2	ND(2.0)	ND(2.0)	ND(2.0)
Sr-90(Approx. 29 years)		/		-	-	-	-	-	-	-	-

^{*} Data announced this time is provided in a thick-frame. The other data was announced on August 29.

^{* &}quot;ND" indicates that the measurement result is below the detection limit, and the detection limit of each nuclide is provided in parentheses.

^{* &}quot;-" indicates that the measurement was out of range.

Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (4/4) Seawater

Unit: Bq/L

	1F, North side of Unit 5,6 discharge channel	1F, In front of Unit 6 water intake channel	1F, In front of shallow draft quay	1F, North side of Unit 1-4 water intake channel	1F, North side of Unit 1-4 water intake channel (north side of East Seawall Break)	1F, Unit 1 Screen (Inside the Silt Fence)	1F, Between the water intake channel of Unit 1 and Unit 2 (surface layer)	1F, Between the water intake channel of Unit 1 and Unit 2 (lower layer)	1F, Unit 2 Screen	1F, Between the water intake channel of Unit 2 and Unit 3	1F, Unit 3 Screen (Inside the Silt Fence)
Date of Sampling	Sep 2, 2013	Sep 2, 2013	Sep 2, 2013	/	Sep 2, 2013	Sep 2, 2013			Sep 2, 2013	Sep 2, 2013	Sep 2, 2013
Time of sampling	6:00 AM	5:50 AM	5:49 AM		6:17 AM	5:57 AM			6:01 AM	6:03 AM	6:06 AM
Cs-134(Approx. 2 years)	ND(1.1)	ND(3.2)	ND(1.9)	/	4.8	24			15	10	17
Cs-137(Approx.30 years)	ND(1.4)	2.4	ND(2.5)	/	11	50			36	24	32
All β	ND(16)	ND(19)	ND(19)		180	540			300	300	220
H-3 (Approx. 12 years)	Under analysis	Under analysis	Under analysis		Under analysis	Under analysis			Under analysis	Under analysis	Under analysis
Sr-90(Approx. 29 years)	-	-	-	/	-	-	/	/	-	-	-

	1F, Between the water intake channel of Unit 3 and Unit 4	Screen	1F, Around the south discharge channel	1F, Port entrance	1F, East side in the port	1F, West side in the port	1F, North side in the port	1F, South side in the port	North side of the north breakwater*	East side of the port entrance*	South side of the south breakwater*
Date of Sampling	Sep 2, 2013	Sep 2, 2013	Sep 2, 2013							/	
Time of sampling	6:08 AM	6:12 AM	5:20 AM								
Cs-134(Approx. 2 years)	9.8	16	ND(1.4)		/	/		/			
Cs-137(Approx.30 years)	22	28	ND(1.3)				/			/	
ΑΙΙ β	250	230	ND(21)								
H-3 (Approx. 12 years)	Under analysis	Under analysis	Under analysis		/	/	/	/		/	
Sr-90(Approx. 29 years)	-	=	-	/	/	/	/	/	/	/	/

^{* &}quot;ND" indicates that the measurement result is below the detection limit, and the detection limit of each nuclide is provided in parentheses.

^{* &}quot;-" indicates that the measurement was out of range.

<Reference> The Highest Dose Until the Previous Measurement (Groundwater Obtained at Bank Protection)

Unit: Bq/L

		Groun observa No.	tion hole	Ground observat No.	tion hole	Groun- observa No	tion hole	Ground observat No.	ion hole	Ground observat No.	ion hole	Ground observat No.	tion hole	Ground observati No.	ion hole	Ground observati No.	tion hole	Ground observat No.	ion hole	Ground pumped the wel (notch	up from II point
	Cs-134 (Approx. 2 years)	1.4	[8/29]	ND		13	[8/29]	1.9	[7/8]	11,000	[7/9]	10	(9/2)	1.5	[7/8]	310	[8/5]	26	[8/26]	1.5	[8/19]
(Cs-137 (Approx.30 years)	3.0	[8/29]	0.75	[9/2]	31	[8/29]	3.6	[7/8]	22,000	[7/9]	24	[9/2]	3.6	[7/8]	650	[8/5]	58	[8/26]	3.4	[8/19]
	Ru-106 (Approx. 370 days)	ND		ND		26	[5/24]	7.9	[7/8]	160	[8/15]	17	(7/22) (8/8)	3.1	[8/8]	ND		ND		25	[9/2]
The	Mn-54 (Approx. 310 days)	ND		ND		ND		1.0	[7/5]	62	[7/5]	ND		ND		ND		0.52	[8/26]	ND	
other	Co-60 (Approx. 5 years)	ND		ND		0.50	[7/19]	ND		3.1	[7/8]	ND		ND		ND		ND		ND	
	Sb-125 (Approx. 3 years)	ND		ND		1.7	[7/11]	ND		250	[7/15]	1.4	(7/12) (8/26)	ND		12	[8/8]	ND		ND	
	ΑΙΙ β	300	[8/22]	ND		1,900	[5/24]	4,400	[7/8]	900,000	(7/5) (7/9)	160,000	[8/12] [8/15]	380	[8/19]	56,000	[8/5]	1,200	[8/26]	360,000	[9/2]
	H-3 (Approx. 12 years)	42,000	[8/22]	Under analysis		500,000	[5/24] [6/7]	630,000	[7/8]	400,000	[8/22]	290,000	[7/12]	98,000	[7/11]	72,000	[8/15]	950	[8/20]	460,000	[8/19]
	Sr-90(Approx. 29 years)	Under analysis		Under analysis		1,200	[6/7]	Under analysis		Under analysis		Under analysis		Under analysis		Under analysis		Under analysis		1	

		observa	dwater tion hole 5.2	Ground observat No.:	ion hole	observa	ndwater ation hole lo.3	Ground observat No.:	ion hole
Cs	s-134 (Approx. 2 years)	0.50	[7/9]	0.66	[9/1]	3.5	[7/25]	1.2	(7/25) (8/8)
Cs	-137 (Approx.30 years)	1.2	(7/11) (8/1)	1.1	(8/29) (9/1)	5.9	[8/8]	2.6	[8/1]
	Ru-106 (Approx. 370 days)	ND		ND		ND		ND	
The	Mn-54 (Approx. 310 days)	ND		ND		ND		ND	
other γ	Co-60 (Approx. 5 years)	ND		ND		ND		ND	
	Sb-125 (Approx. 3 years)	ND		ND		ND		ND	
	ΑΙΙ β	1,700	[7/8]	380	[7/29]	1,400	[7/11]	180	[8/1]
H	H-3 (Approx. 12 years)	850	[6/26]	440	[8/26]	3,200	(2012/12/ 12)	460	[8/1]
S	r-90(Approx. 29 years)	54	[5/31]	Under analysis		8.3	(2012/12/ 12)	Under analysis	

^{* &}quot;ND" indicates that the measurement result is below the detection limit.

^{*} Date of sampling is provided in parentheses.

<Reference> The Highest Dose Until the Previous Measurement* (Seawater)

Unit: Bq/L

	Unit 5,6	orth side of 6 discharge nannel		ont of Unit 6 ake channel	,	front of draft quay		th side of rater intake nnel	Unit 1-4 w channel (of East	th side of rater intake north side Seawall eak)	(Inside	1 Screen the Silt nce)	water intal	and Unit 2	water intal		(Inside	2 Screen the Silt nce)	water inta of Unit 2		water inta of Unit 2	ween the ake channel and Unit 3 r layer)	(Inside	3 Screen the Silt nce)
Cs-134(Approx. 2 years)	1.8	[6/21]	2.4	[8/19]	5.3	[8/5]	35	[8/29]	16	[8/12]	24	(8/12) (8/19)	27	[8/11]	13	[8/29]	26	[8/19]	21	[8/12]	3.5	[8/20]	350	[7/15]
Cs-137(Approx.30 years)	3.3	[6/26]	4.7	[8/19]	8.6	[8/5]	81	[8/13]	33	[8/12]	51	[8/12]	64	[8/27]	25	[8/29]	52	[8/19]	37	[8/12]	9.8	[8/20]	770	[7/15]
ΑΙΙ β	ND		46	[8/19]	40	[7/3]	1,100	(8/15)	320	[8/12]	700	[8/12]	740	[8/15]	450	[7/16]	490	[8/19]	410	[8/12]	85	[8/20]	1,000	[7/15]
H-3 (Approx. 12 years)	8.6	[6/26]	24	[8/19]	340	[6/26]	4,700	[8/15]	460	[7/15]	2,500	[8/12]	2,600	[8/15]	1,200	(8/4) (8/29)	820	[8/19]	720	[8/12]	-		380	[8/12]
Sr-90 (Approx. 29 years)	5.8	[6/26]	-		7.4	[6/26]	Under analysis		Under analysis		Under analysis		Under analysis		Under analysis		Under analysis		Under analysis		-		Under analysis	

	water into		water int of Unit 3	tween the ake channel and Unit 4 er layer)	(Inside	4 Screen the Silt nce)	south o	ound the lischarge annel	1F, Por	t entrance		side in the ort	,	side in the ort		side in the ort	,	n side in the port	North sid north bre		East side of the port entrance	South side of the south breakwater
Cs-134(Approx. 2 years)	22	[8/12]	4.8	[8/20]	46	[7/8]	ND		1.6	[8/19]	2.9	[8/19]	2.6	[8/19]	ND		2.1	[8/19]	ND		ND	ND
Cs-137(Approx.30 years)	45	[8/12]	7.7	[8/20]	93.0	[7/8]	3.0	[7/15]	4.7	[8/19]	6.6	[8/19]	6.5	[8/19]	4.7	[8/19]	4.6	[8/19]	ND		ND	ND
ΑΙΙ β	390	[8/12]	57	[8/20]	310	[8/12]	ND		69	[8/19]	74	[8/19]	60	[7/4]	69	[8/19]	79	[8/19]	ND		ND	ND
H-3 (Approx. 12 years)	650	[8/12]	-		400	[8/12]	ND		68	[8/19]	67	[8/19]	59	[8/19]	52	[8/19]	60	[8/19]	4.7	[8/14]	ND	ND
Sr-90 (Approx. 29 years)	Under analysis		-		Under analysis		0.36	[6/26]	3.5	[6/20]	Under analysis		Under analysis		-		-		-		-	-

^{*} The highest result announced in "Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection" or the other handouts is provided. As for "1F, North side of Unit 1-4 water intake channel", the data is obtained since January 14, 2013. For the other locations, the data is obtained since June 14.

^{* &}quot;ND" indicates that the measurement result is below the detection limit.

^{*} Date of sampling is provided in parentheses.

^{* &}quot;-" indicates that the measurement was out of range.