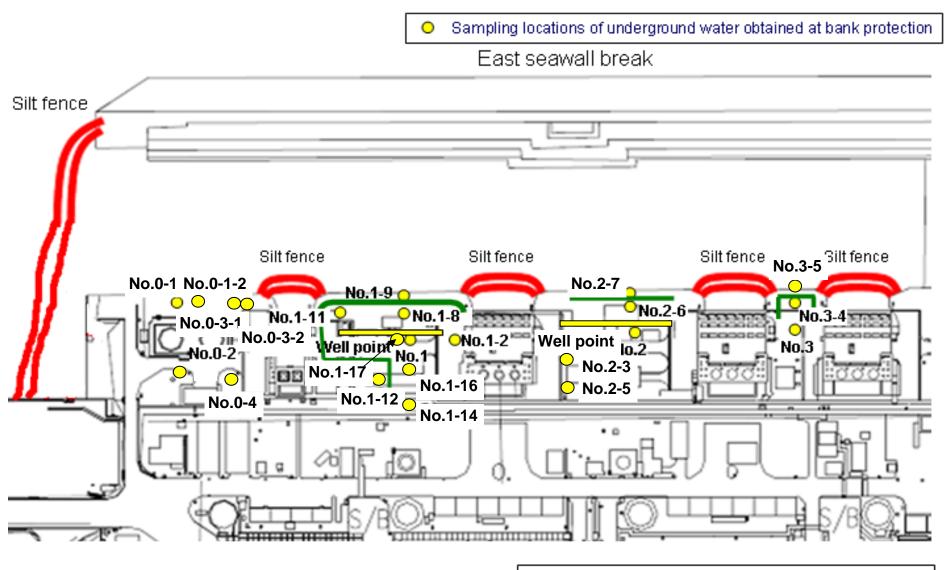
Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (Sampling Locations of Underground Water Obtained at Bank Protection)



 Location where ground improvement work was completed, or being implemented (as of December 4)

## Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection Underground Water Obtained at Bank Protection

Unit: Bq/L (exclude chloride)

		Underground water observation hole No.0-1	Underground water observation hole No.0-1-1	Underground water observation hole No.0-1-2	Underground water observation hole No.0-2	Underground water observation hole No.0-3-1	Underground water observation hole No.0-3-2	Underground water observation hole No.0-4	Underground water observation hole No.1	Underground water observation hole No.1-8	Underground water observation hole No.1-9	Underground water observation hole No.1-11	Underground water observation hole No.1-12	Underground water observation hole No.1-14
	Date of sampling	/	Dec 7, 2013	/	/	/	Dec 6, 2013	/	/	/	1	/	/	
	Time of sampling	/	11:15 AM		/		1:53 PM	/			/			/
	Chloride (unit: ppm)		-				-							
C	s-134 (Approx. 2 years)		ND(0.46)				ND(0.38)							
Cs	:-137 (Approx.30 years)		0.58				0.54							
The other y														
	Gross β		21				19							
H	H-3 (Approx. 12 years)		Under analysis				64,000							
Sr	-90 (Approx. 29 years)		Under analysis	/			Under analysis	/	/				/	/
		Underground water observation hole No.1-16	Underground water observation hole No.1-17	Groundwater pumped up from the well point (between Unit 1 and 2)	Underground water observation hole No.2	Underground water observation hole No.2-3	Underground water observation hole No.2-5	Underground water observation hole No.2-6	Underground water observation hole No.2-7	Groundwater pumped up from the well point (between Unit 2 and 3)	Underground water observation hole No.3	Underground water observation hole No.3-4	Underground water observation hole No.3-5	
	Date of sampling	/		/	1	Dec 6, 2013	/	/	/	/	1	/	/	
	Time of sampling					10:56 AM								
	Chloride (unit: ppm)					-								
C	s-134 (Approx. 2 years)					ND(0.36)								
Cs	s-137 (Approx.30 years)					0.49								
	Mn-54 (Approx. 310 days)					0.29								
The other y														
	Gross β					1,500								
H	H-3 (Approx. 12 years)					1,700								
Sr	-90 (Approx. 29 years)	/	/		/	Under analysis	/	V	/		/		/	

<sup>\*</sup> Data announced this time is provided in a thick-frame. The other data was announced on December 6.

<sup>\* &</sup>quot;ND" indicates that the measurement result is below the detection limit, and the detection limit of each nuclide is provided in parentheses.

<sup>\* &</sup>quot;-" indicates that the measurement was out of range.

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

Unit: Ba/l

		Groundwater observation hole No.0-1		n hole observation hole		Groundwater observation hole No.0-2		Groundwater observation hole No.0-3-1		Groundwater observation hole No.0-3-2		Groundwater observation hole No.0-4		Groundwater observation hole No.1		Groundwater observation hole No.1-1*		Groundwater observation hole No.1-2*		Groundwater observation hole No.1-3*		Groundwater observation hole No.1-4*		Groundwater observation hole No.1-5*	
Cs-134 (Approx. 2 years)		6.5	[ 12/1 ]	ND		0.61	[ 10/13 ]	0.44	[ 11/24 ]	ND		ND		13	[ 8/29 ]	1.9	[ 7/8 ]	11,000	[7/9]	10	[ 9/2 ]	1.5	[7/8]	310	( 8/5 )
Cs	-137 (Approx.30 years)	16	[ 12/1 ]	0.51	[11/17]	1.6	[ 10/13 ]	0.86	[ 11/20 ]	0.54	[ 12/6 ]	0.49	[ 12/1 ]	31	[ 8/29 ]	3.6	[ 7/8 ]	22,000	[7/9]	24	[ 9/2 ]	3.6	[7/8]	650	[ 8/5 ]
	Ru-106 (Approx. 370 days)	ND		ND		ND		ND		ND		ND		26	[ 5/24 ]	7.9	[ 7/8 ]	160	(8/15)	17	(7/22) (8/8)	3.1	[ 8/8 ]	ND	
The	Mn-54 (Approx. 310 days)	ND		ND		ND		ND		ND		ND		ND		1.0	( 7/5 )	62	[ 7/5 ]	ND		ND		ND	
other y	Co-60 (Approx. 5 years)	ND		ND		ND		ND		ND		ND		0.50	[7/19]	ND		3.1	[7/8]	ND		ND		ND	
	Sb-125 (Approx. 3 years)	ND		ND		ND		ND		ND		ND		1.7	[7/11]	ND		250	(7/15)	1.4	(7/12) (8/26)	ND		12	[ 8/8 ]
	Gross β	300	[ 8/22 ]	21	[11/10]	87	[ 10/13 ]	ND		19	[ 12/6 ]	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 )
H	H-3 (Approx. 12 years) Sr-90(Approx. 29 years)		[ 8/29 ]	65,000	[ 12/1 ]	1,100	[ 12/1 ]	ND		分析中		20,000	[ 12/1 ]	500,000	(5/24) (6/7)	630,000	[ 7/8 ]	430,000	(9/16)	290,000	[7/12]	98,000	[7/11]	72,000	( 8/15 )
S				Under analysis		Under analysis		Under analysis		Under analysis		Under analysis		1,200	[6/7]	Under analysis		Under analysis		Under analysis		Under analysis		Under analysis	

																	Unit: Bq/L
		Groundwater observation hole No.1-8			dwater tion hole .1-9	Groundwater observation hole No.1-11		Groundwater observation hole No.1-12		Groundwater observation hole No.1-14		Groundwater observation hole No.1-16		Groundwater observation hole No.1-17		pumped u well point	dwater p from the (between and 2)
C	s-134 (Approx. 2 years)	47	[ 11/25 ]	170	[ 9/3 ]	0.94	[ 10/31 ]	74	[ 10/21 ]	1.2	[11/14]	1.6	[11/14]	1.2	[ 12/5 ]	110	[ 9/23 ]
Cs	:-137 (Approx.30 years)	110	[ 11/25 ]	380	[ 9/3 ]	2.2	[ 12/2 ]	170	[ 10/21 ]	2.3	[ 11/21 ]	3.4	[10/10]	0.55	[ 12/5 ]	250	[ 9/23 ]
	Ru-106 (Approx. 370 days)	ND		ND		ND		5.4	[ 10/28 ]	ND		9.2	[ 10/28 ]	4.0	(11/22) (11/28)	25	[ 9/2 ]
The	Mn-54 (Approx. 310 days)	7.1	(11/25) (12/2)	ND		ND		ND		ND		ND		ND		ND	
other y	Co-60 (Approx. 5 years)	0.58	[11/18]	ND		ND		0.51	[ 10/24 ]	ND		0.9	[ 11/7 ]	0.61	[ 11/25 ]	ND	
	Sb-125 (Approx. 3 years)	ND		ND		ND		61	[ 10/21 ]	ND		11	[ 12/5 ]	2.1	[ 11/25 ]	ND	
	Gross β	18,000	[ 11/25 ]	2,100	[11/17]	72	[ 10/3 ]	730	[ 10/21 ]	160	[11/21] [12/5]	1,400,000	[ 12/5 ]	<u>130</u>	[12/2]	700,000	[ 9/23 ]
H-3 (Approx. 12 years) Sr-90(Approx. 29 years)		7,500	[ 12/2 ]	860	[11/14]	85,000	[ 9/13 ]	440,000	[ 10/31 ]	11,000	[11/25]	43,000	[ 9/26 ]	15,000	[ 12/2 ]	460,000	[ 8/19 ]
		Under analysis		Under analysis		Under analysis		Under analysis	[ 10/21 ]	Under analysis		Under analysis		Under analysis		-	

																							Unit: Bq/L
		observa	ndwater ation hole o.2	observa	idwater ition hole 2-1*	observa	dwater tion hole 2-3	Groun observa No.:	tion hole	observa	dwater tion hole .2-6	observa	dwater tion hole .2-7	pumped u well point	idwater up from the t (between and 3)	observa	ndwater ation hole o.3	observa	dwater tion hole 3-1*	observa	ndwater ation hole 0.3-4	observa	dwater tion hole .3-5
С	s-134 (Approx. 2 years)	0.50	[7/9]	0.66	[ 9/1 ]	ND		5.2	[ 12/4 ]	0.56	[ 10/30 ]	1.3	[ 11/21 ]	0.75	[ 12/4 ]	3.5	[7/25]	1.2	[7/25] [8/8]	1.8	[ 10/30 ]	-	
C	-137 (Approx.30 years)	1.2	(7/11) (8/1)	1.1	(8/29) (9/1)	0.49	[ 12/6 ]	12	[ 12/4 ]	0.61	[ 10/13 ]	3.1	[ 11/21 ]	1.7	[ 12/6 ]	5.9	[ 8/8 ]	2.6	[8/1]	4.3	[ 11/27 ]	-	
	Ru-106 (Approx. 370 days)	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		-	
The	Mn-54 (Approx. 310 days)	ND		ND		0.29	[ 12/6 ]	0.87	[ 12/4 ]	ND		ND		ND		ND		ND		0.54	[ 10/30 ]	-	
other y	Co-60 (Approx. 5 years)	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		-	
	Sb-125 (Approx. 3 years)	ND		ND		ND		26	[ 9/29 ]	ND		ND		ND		1.1	[ 9/5 ]	ND		ND		-	
	Gross β	1,700	[7/8]	380	[ 7/29 ]	1,500	[ 12/6 ]	46,000	[ 9/29 ]	3,200	[ 12/5 ]	18	[ 11/21 ]	180,000	[ 12/6 ]	1,400	(7/11)	180	[8/1]	ND		35*2	[ 11/27 ]
	H-3 (Approx. 12 years)	850	[6/26]	440	[ 8/26 ]	分析中		3,100	[ 11/7 ]	1,200	(11/24) (11/27)	1,000	[ 11/21 ]	4,800	[12/5]	3,200	(H24. 12/12)	460	[8/1]	170	[ 9/18 ]	ND <sup>*2</sup>	
Sr-90(Approx. 29 years)		54	[5/31]	Under		Under		Under		Under	-	Under		-		8.3	(2012/12/	Under		Under		-	

s-90(Approx. 29 years)

4 1311 | analysis | analysis | analysis | analysis | analysis | analysis |

4 2 Since the water of No.3-5 obtained on November 23 and 27 was highly turbid, only chloride, Gross β and tritium were analyzed as a reference.

<sup>\* &</sup>quot;ND" indicates that the measurement result is below the detection limit.

<sup>\*</sup> Date of sampling is provided in parentheses.

<sup>\* &</sup>quot;\*" is provided next to the name of the holes where the sampling could not be performed due to the chemical injection of ground improvement.

The underlined part was corrected on January 10, 2014.