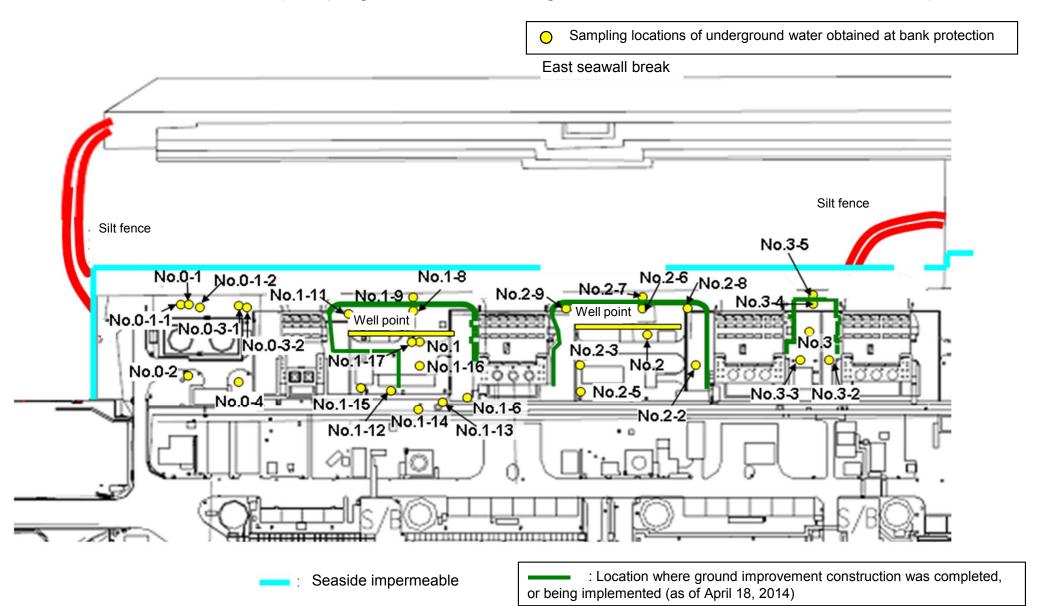
Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (Sampling Locations of Underground Water Obtained at Bank Protection)



Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (1/3) Underground Water Obtained at Bank Protection

Unit: Bq/L (exclude chloride)

		Underground water observation hole No.0-1	Underground water observation hole No.0-1-2	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.1-6	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	Underground water observation hole No.1-16	Underground water observation hole No.1-17
	Date of sampling	/	1	1 /	/	Sep 11, 2014	/	Sep 11, 2014	Sep 11, 2014	/	1	Sep 11, 2014				
	Time of sampling					9:30 AM		10:31 AM	9:51 AM			10:10 AM	9:15 AM	9:26 AM	9:35 AM	9:48 AM
	Chloride (unit: ppm)					_		_	-			_	_	_	_	_
C	s-134 (Approx. 2 years)					ND(0.43)		ND(0.46)	10,000			0.52	2.2	41	1.8	ND(1.5)
Cs	-137 (Approx.30 years)					ND(0.51)		0.78	29,000			1.5	8.8	140	2.1	ND(0.79)
	Mn-54 (Approx. 310 days)					ND		ND	110			ND	ND	ND	5.60	ND
The	Co-60 (Approx. 5 years)					ND		ND	600			ND	ND	ND	ND	ND
ther y	Ru-106 (Approx. 370 days)					ND		3.6	ND			ND	ND	ND	ND	ND
	Gross β					25		65	890,000			69	100	14,000	630,000	650,000
ŀ	I-3 (Approx. 12 years)	/				15,000	/	140,000	8,200		/	3,800	37,000	7,300	5,200	9,000
Sr	-90 (Approx. 29 years)	/	/	/		_	/	_	_	/	/	_	_	_	_	-
		Groundwater pumped up from the well point	Underground water observation	Underground water observation	Underground water observation	Underground water observation	Underground water observation	Underground water observation	Underground water observation	Groundwater pumped up from the well point	Underground water observation	Underground water observation	Underground water observation	Underground water observation	Underground water observation	

		Groundwater pumped up from the well point (between Unit 1 and 2)	Underground water observation hole No.2	Underground water observation hole No.2-2*	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	Underground water observation hole No.2-8	Groundwater pumped up from the well point (between Unit 2 and 3)	Underground water observation hole No.3	Underground water observation hole No.3-2	Underground water observation hole No.3-3	Underground water observation hole No.3-4	Underground water observation hole No.3-5
	Date of sampling	/	/	/	/	/	/	1 /	/	1	/	/	/	/	
	Time of sampling			/											
	Chloride (unit: ppm)														
Cs	s-134 (Approx. 2 years)														
Cs	s-137 (Approx.30 years)														
	Mn-54 (Approx. 310 days)														
The	Co-60 (Approx. 5 years)														
other y	Ru-106 (Approx. 370 days)														
	Gross β														
H	H-3 (Approx. 12 years)			/	/	/							/		
Sr	-90 (Approx. 29 years)				/	/							/	/	/

^{*} Data announced this time is provided in a thick-frame. The other data was announced on September 12.

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

^{* &}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 (2/3) Underground Water Obtained at Bank Protection

Unit: Bq/L (exclude chloride)

															O. II. Dq	E (CACIDAC CITIOTIAC
		Underground water observation hole No.0-1	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.1-6	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	Underground water observation hole No.1-16	Underground water observation hole No.1-17
	Date of sampling	1	1	,	1 /	1	/	Sep 15, 2014	Sep 15, 2014	Sep 15, 2014	/	Sep 15, 2014				
	Time of sampling		/	/	/	/	/	9:09 AM	9:36 AM	9:55 AM	/	9:24 AM	8:50 AM	9:06 AM	9:06 AM	10:19 AM
	Chloride (unit: ppm)							_	_	_		-	-	_	-	-
Cs	s-134 (Approx. 2 years)			/				0.89	11,000	9.1		0.82	7.1	37	3.6	ND(0.70)
Cs	-137 (Approx.30 years)							2.8	32,000	27		2.3	18	120	8.4	ND(0.77)
								ND	110	ND		ND	ND	ND	5.10	ND
The								ND	660	ND		ND	ND	ND	ND	ND
other y		 						3.3	ND	ND		ND	ND	ND	ND	ND
								ND	ND	ND		ND	ND	ND	5	ND
	Gross β	1/						64	990,000	7,100		46	140	14,000	620,000	720,000 * 1
Н	I-3 (Approx. 12 years)	1/		/	/		/	Under analysis	Under analysis	Under analysis	/	Under analysis				
Sr-	-90 (Approx. 29 years)	/	/	/	/	/	/	_	_	_	/	-	-	_	_	-
		T			Ī		I .	l	l	l	1	l	l	l		
		Groundwater pumped up from the well point (between Unit 1 and 2)	Underground water observation hole No.2	Underground water observation hole No.2-2*	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	Underground water observation hole No.2-8	Groundwater pumped up from the well point (between Unit 2 and 3)	Underground water observation hole No.3	Underground water observation hole No.3-2	Underground water observation hole No.3-3	Underground water observation hole No.3-4	Underground water observation hole No.3-5	
	Date of sampling	Sep 15, 2014	,	1	/	1	1	1	/	1	1	/	/	1	1	
	Time of sampling	10:00 AM	/					/		/						
	Chloride (unit: ppm)	_														
Cs	s-134 (Approx. 2 years)	5.4														
Cs	-137 (Approx.30 years)	14														
	Mn-54 (Approx. 310 days)	2.1														
The	Co-60 (Approx. 5 years)	ND														
other y	Ru-106 (Approx. 370 days)	ND]
	Sb-125 (Approx. 3 years)	ND]
	Gross β	320,000	/	<i> </i> /	/	/	/	/	/	/	/	i /	<i> </i>	/	1 /	1

Under analysis

H-3 (Approx. 12 years)

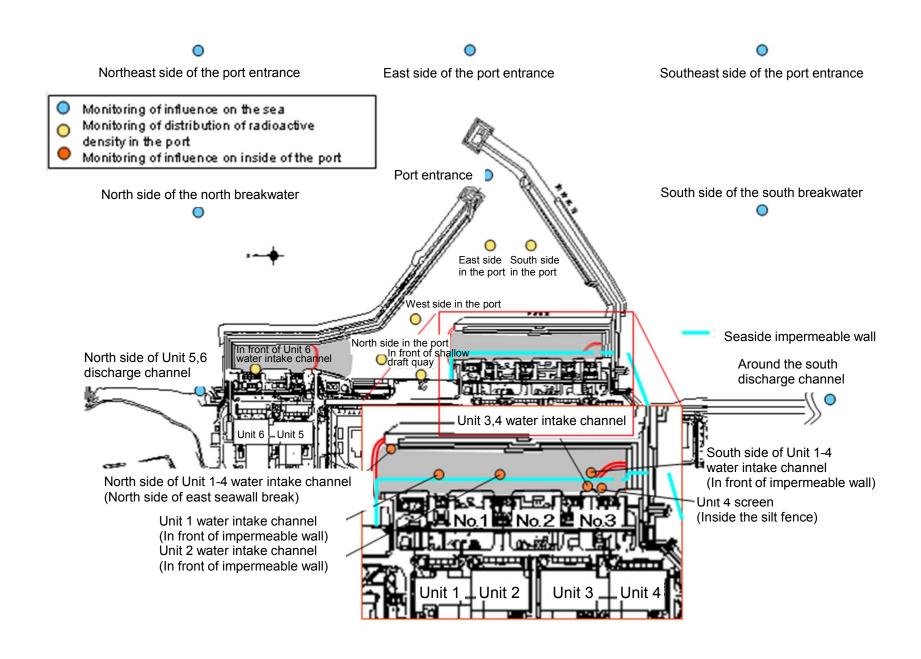
Sr-90 (Approx. 29 years)

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

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

^{*} 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.

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



Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (3/3) 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	i intake channei	1F, In front of Unit 1 discharge channel (in front of impermeable wall)	channel (in front	1F, Between the water intake channel of Unit 3 and Unit 4	1F, Unit 4 Screen (Inside the Silt Fence)	1F, South side of Unit 1-4 water intake channel (In front of impermeable wall)	south discharge	Specified	drinking- water
Date of Sampling	Sep 15, 2014	Sep 15, 2014	Sep 15, 2014	Sep 15, 2014	Sep 15, 2014	Sep 15, 2014	Sep 15, 2014	Sep 15, 2014	Sep 15, 2014	Sep 15, 2014		
Time of sampling	6:20 AM	6:35 AM	6:59 AM	6:34 AM	6:54 AM	6:48 AM	6:46 AM	6:40 AM	6:43 AM	5:30 AM		
Cs-134(Approx. 2 years)	ND(0.76)	ND(2.0)	ND(2.0)	5.4	4.1	9.9	8.8	7.0	5.6	ND(0.57)	60	10
Cs-137(Approx.30 years)	ND(0.62)	ND(2.3)	4.7	13	16	29	28	24	21	ND(0.73)	90	10
Gross β	11	ND(18)	ND(18)	100	96	130	290	230	130	14		
H-3 (Approx. 12 years)	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	60,000	10,000
Sr-90 (Approx. 29 years)	_	_	_	-	-	_	_	_	_	-	30	10

Unit: Bq/L

	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	Northeast side of the port entrance	East side of the port entrance	Southeast side of the port entrance	South side of the south breakwater	Density Limit Specified by the Reactor Regulation	WHO Guidelines for drinking- water quality
Date of Sampling												
Time of sampling			/									
Cs-134(Approx. 2 years)		/	/								60	10
Cs-137(Approx.30 years)		/									90	10
Gross β												
H-3 (Approx. 12 years)											60,000	10,000
Sr-90 (Approx. 29 years)	/	/	/	/	/	/		/			30	10

^{* &}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.

^{*} Density Limit Specified by the Rule for the Installation, Operation, etc. of Commercial Nuclear Power Reactors (the density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2 [the amount is converted from Bq/cm³ to Bq/L]).

Unit: Bq/L

																													Unit: Bq/L
		Groun observa No.	tion hole	observa	dwater tion hole 0-1-1	observa	dwater tion hole 0-1-2	observa	dwater tion hole .0-2	observa	dwater tion hole 0-3-1	observa	dwater tion hole)-3-2	Groun observa No.	tion hole	Ground observat No	tion hole	Ground observati No.		Ground observat No.	ion hole		dwater tion hole 1-3 [*]	Ground observat No.		Ground observat No.	ion hole	Ground observation No.1	on hole
	Cs-134 (Approx. 2 years)	29	<5/25>	ND		0.61	<3/2>	0.61	[10/13]	0.64	<4/6>	0.86	<9/8>	0.70	<6/29>	13	[8/29]	1.9	[7/8]	11,000	[7/9]	10	[9/2]	1.5	[7/8]	310	[8/5]	12,000	<8/12>
	Cs-137 (Approx.30 years)	78	<5/25>	ND		1.5	<3/2>	2.2	<1/12>	1.1	<4/6>	2.3	<9/8>	1.6	<6/29>	31	[8/29]	3.6	[7/8]	22,000	[7/9]	24	[9/2]	3.6	[7/8]	650	[8/5]	34,000	<8/12>
	Ru-106 (Approx. 370 days)	ND		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		ND	
The	Mn-54 (Approx. 310 days)	ND		ND		ND		ND		ND		0.64	<2/20>	ND		ND		1.0	[7/5]	62	[7/5]	ND		ND		ND		320	<2/13> <2/17>
other	Y Co-60 (Approx. 5 years)	ND		ND		ND		ND		ND		ND		ND		0.50	[7/19]	ND		3.1	[7/8]	ND		ND		ND		830	<2/20>
	Sb-125 (Approx. 3 years)	ND		ND		ND		ND		ND		ND		ND		1.7	[7/11]	ND		250	[7/15]	1.4	[7/12] [8/26]	ND		12	[8/8]	34	<5/19>
	Gross β	300	[8/29] <5/18>	21	[12/7]	24	<6/22>	87	[10/13]	ND		67 * 1	[12/11]	44	<6/22>	1,900	[5/24]	4,400	[7/8]	9,300,000	[7/8]	160,000	[8/12] [8/15]	380	[8/19]	56,000	[8/5]	1,400,000	<8/12>
	H-3 (Approx. 12 years)	45,000	[8/29]	18,000	(12/7)	74,000	[12/15] <1/19>	6,800	<2/16>	ND		76,000	<2/6>	56,000	<2/23>	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]	*2 110,000	<2/6>
	Sr-90(Approx. 29 years)	140	[8/8]	7.9	[12/7]	2.6	[11/10]	0.73	[9/2]	1.5	[11/20]	2.3	[12/6]	ND(0.83)	[10/27]	1,300	[8/22]	2,300	[6/28]	5,000,000	[7/5]	130,000	[8/8]	200	[7/8]	5,100	[8/22]	690,000	<5/12>

			Ground observat No.	ion hole	Groundwater observation hole No.1-9	Groundwater observation hole No.1-10	Groundv observatio No.1-	n hole	Ground observati No.1	on hole	Ground observati No.1	on hole	Ground observati No.1	ion hole	Ground observat No.1	ion hole	Ground observati No.1	ion hole	Ground observati No.	ion hole	Ground pumped the wel (between and	up from I point n Unit 1	observa	ndwater ation hole lo.2		idwater ition hole .2-1	observa	dwater tion hole .2-2
	Cs-	134 (Approx. 2 years)	47	[11/25]	170 [9/3]	-	1.1	<1/13>	74	[10/21]	37,000	<2/13>	88 *2	<2/27>	ND		30	<7/28>	1.4	<7/7>	110	[9/23]	0.88	<2/26>	0.66	[9/1]	15	<2/12>
	Cs-	137 (Approx.30 years)	110	[11/25]	380 [9/3]	-	3.4	<4/28>	170	[10/21]	93,000	<2/13>	230 *2	<2/27>	0.88	<7/10>	86	<7/28>	2.8	<4/28> <9/8>	250	[9/23]	2.5	<2/26>	1.1	[8/29] [9/1]	38	<2/12>
		Ru-106 (Approx. 370 days)	ND		ND	-	ND		5.4	[10/28]	ND		ND		ND		9.2	[10/28]	5.5	<4/21> <5/1>	25	[9/2]	ND		ND		ND	
	The	Mn-54 (Approx. 310 days)	12	<2/3>	ND	=	ND		ND		ND		2.1	<9/8>	ND		11	<8/25>	ND		8.5	<4/28>	ND		ND		ND	
O	her γ	Co-60 (Approx. 5 years)	1.3	<2/3>	ND	-	ND		0.51	[10/24]	ND		0.44	<5/29>	ND		0.9	[11/7]	0.61	[11/25]	0.61	<6/9>	ND		ND		ND	
		Sb-125 (Approx. 3 years)	ND		ND	-	ND		61	[10/21]	ND		ND		ND		24	<6/16>	2.1	[11/25]	ND		ND		ND		ND	
		Gross β	59,000	<2/3>	2,100*2 [11/17]	78 *2 <1/27>	2,300	[12/26]	1,100	<5/5>	260,000	<2/12> <2/13>	22,000	<8/14>	110	<7/10>	3,100,000	<1/20> <1/30> <2/3>	650,000	<9/11>	1,900,000	[9/23]	1,700	(7/8)	380	[7/29]	600	<4/16>
	H-	3 (Approx. 12 years)	33,000	<6/2>	860 ^{*2} [11/14]	270,000*2 <1/27>	85,000	(9/13)	440,000	[10/31]	88,000	<2/12>	23,000	<2/13>	74,000	<7/10>	43,000	[9/26]	32,000	<1/20>	460,000	[8/19]	1,000	<2/23>	440	[8/26]	660	<1/8>
	Sr-	90(Approx. 29 years)	35,000	<2/17>	300 [10/3]	-	22	<1/9>	290	[10/21]	160,000	<2/12>	2,200	<5/12>	Under a	nalysis	2,700,000	<2/13>	5,600	<5/12>	-		54	[5/31]	5.9	[7/25]	320	[12/25]

																											Unit: Bq/L
		observa	ndwater ation hole 0.2-3	observa	dwater tion hole .2-5	observa	idwater ition hole .2-6	observa	ndwater ation hole 0.2-7	observa	ndwater ation hole i.2-8	observa	dwater tion hole .2-9	pumped the we (between	dwater I up from ell point en Unit 2 d 3)	observa	ndwater ation hole lo.3	observa	ndwater ation hole 5.3-1	observa	ndwater ation hole i.3-2	observa	dwater ition hole .3-3	observa	ndwater ation hole 5.3-4	observa	ndwater ation hole 0.3-5
C	s-134 (Approx. 2 years)	2.2	<2/26>	41	<5/7>	17	<3/11>	3.5	<2/23>	1.3	<7/20>	ND		2.2	<9/7>	3.5	[7/25]	1.2	(7/25) (8/8)	23	<8/27>	180	<7/2>	5.1	<7/23>	100	<7/30>
С	s-137 (Approx.30 years)	5.5	<2/26>	110	<5/7>	50	<3/11>	9.0	<2/23>	3.4	<7/20>	0.58	<2/11>	5.7	<9/7>	5.9	[8/8]	2.6	[8/1]	68	<9/3>	500	<7/2>	16	<8/27>	310	<7/30>
	Ru-106 (Approx. 370 days)	ND		ND		ND		ND		ND		6.5*2	<2/11>	ND		ND		ND		ND		ND		ND		-	
The	Mn-54 (Approx. 310 days)	0.29	[12/6]	0.95	<6/4>	ND		ND		ND		ND		ND		ND		ND		ND		ND		0.54	[10/30]	-	
other \	Co-60 (Approx. 5 years)	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		-	
	Sb-125 (Approx. 3 years)	ND		74	<5/7>	ND		ND		ND		ND		ND		1.6	<1/1>	ND		ND		ND		ND		-	
	Gross β	1,500	[12/6] <1/8>	150,000	<2/12>	3,200	[12/5]	1,300	<6/20>	5,800	<7/23>	1,700	<2/7>	240,000	[12/12]	1,400	[7/11]	180	[8/1]	3,100	<8/20> <8/28>	8900	<7/2>	46	<8/13>	510	<7/16>
	H-3 (Approx. 12 years)	1,700	[12/6]	7,900	<4/9>	1,900	<8/10>	1,100	<1/19>	1,700	<4/6> <8/6> <8/13>	*2 13,000	<2/7><2/11>	8,800	<8/13>	3,200	(Dec. 12, 2012)	460	[8/1]	3,700	<7/9>	8,000	<5/7>	170	[9/18]	170	<1/8>
:	Gr-90(Approx. 29 years)	1,200	[12/6]	34,000	<5/7>	Under	analysis	ND(1.4)	[11/21]	3,900	<3/30>	1,200 * 2	<2/11>	-		8.3	[Dec. 12, 2012]	4.4	[7/23]	2000	<4/18>	3,600	<4/30>	ND		200	<5/28>

[•] Since some samples are still under analysis, the highest dose of the Strontium-90 is among those previously announced.

and some samples are samples

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

^{*} Date of sampling is provided in parentheses. (): 2013, < >: 2014
* "*" is provided next to the name of the holes where the sampling could not be performed due to the chemical injection of ground improvement.

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

Unit: Bq/L

		ide of Unit 5,6 ge channel		ont of Unit 6 ake channel		nt of shallow t quay	(north si	side of Unit 1- take channel ide of East all Break)	discharge front of im	nt of Unit 1 channel (in permeable all)	intake char and Unit	en the water nnel of Unit 1 2 (surface yer)	intake char	en the water inel of Unit 1 (lower layer)	discharge front of in	ont of Unit 2 e channel (in npermeable vall)	intake char	en the water nnel of Unit 2 Unit 3		3 Screen e Silt Fence)	intake chan	en the water nnel of Unit 3 Unit 4		t 4 Screen e Silt Fence)
Cs-134(Approx. 2 years)	1.8	[6/21]	2.8	[12/2]	5.3	[8/5]	32	[10/11]	12	<6/23>	87	[10/10]	93	[10/10]	12	<9/8>	52	[12/21]	37	<5/12>	62	[9/16]	15	<4/14> <5/19>
Cs-137(Approx.30 years)	4.5	<3/17>	5.8	[12/2]	8.6	[8/5]	73	[10/11]	33	<5/12>	200	[10/10]	200	[10/10]	40	<9/8>	110	[10/11] [12/21]	98	<5/12>	140	[9/16]	45	<5/19>
Gross β	17	<1/6>	46	[8/19]	40	[7/3]	320	[8/12]	140	<5/5> <7/14> <8/18> <9/1>	1,900	<5/20>	1,500	<6/10>	160	<8/18>	1,000	<6/2>	660	<6/9>	610	<6/23>	380	<3/10>
H-3 (Approx. 12 years)	8.7	<5/12>	24	[8/19]	340	[6/26]	600	[8/18]	460	<8/18>	4,200	<5/27>	3,900	<6/10>	350	<8/18>	2,600	<6/2>	2,500	<6/23>	2,200	<7/21>	810	<8/4>
Sr-90 (Approx. 29 years)	4.7	[6/26]	_		7.2	[6/26]	220	[8/19]	-		1,400	<5/15>	820	<5/15>	_		520	<5/12>	410	<5/12>	250	<5/12>	_	

Unit: Bq/L

		d the south ge channel	1F, Por	t entrance	1F, East s	ide in the port	1F, West s	ide in the port	1F, North s	side in the port	1F, South	side in the por		e of the north akwater		side of the ntrance		of the south kwater		t side of the eakwater		e of the south kwater
Cs-134(Approx. 2 years)	1.8	<6/9>	3.3	[12/24]	3.3	[10/17]	4.4	[12/24]	5.0	[12/2]	3.5	(10/17)	ND		ND		ND		ND		ND	
Cs-137(Approx.30 years)	4.9	<6/9>	7.3	[10/11]	9.0	[10/17]	10	[12/24]	8.4	[12/2]	7.8	(10/17)	ND		ND		1.6	[10/18]	ND		ND	
Gross β	16	<6/9> <8/4>	69	[8/19]	74	[8/19]	60	[7/4]	69	[8/19]	79	[8/19]	ND		ND		ND		ND		ND	
H-3 (Approx. 12 years)	5.6	<5/19>	68	[8/19]	67	[8/19]	59	[8/19]	52	[8/19]	60	[8/19]	4.7	[8/14]	1.7	<4/23>	6.4	[10/8]	1.8	<5/29>	2.8	<4/23>
Sr-90 (Approx. 29 years)	0.29	[6/26]	49	[8/19]	-		=		-		-		=		-		=		-		-	

^{*} 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.

[Reference] Standard values

Unit: Bq/L

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	Cs-134	Cs-137	H-3	Sr-90
Density Limit Specified by the Rule for the Installation, Operation, etc. of Commercial Nuclear Power Reactors (the density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2)	60	90	60,000	30
WHO Guidelines for drinking-water quality	10	10	10,000	10

[•] Since some samples are still under analysis, the highest dose of the Strontium-90 is among those previously announced.

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

 $^{^{\}star}$ Date of sampling is provided in parentheses. (): 2013, <>: 2014

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